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FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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LONDON. SATURDAY, JULY 13, 1872.

PER ANNUM, BY POST, 21 4.

Original Correspondence.

THE SCOTCH IRON TRADE-No. XVI. THE WEST COAST IRONWORKS.

THE SCOTCH IRON TRADE—No. XVI.

THE WEST COAST IRONWORKS.

In preceding articles we have spoken of several of the more important works on the West Coast of Scotland, or, as it is otherwise and more locally termed, the Ayrshire coast. With the exception of the Glengarnock and Ardeer Ironworks, both of which belong to Messrs. Merry and Cuninghame, and have already been described, the Messrs. Baird own all the other works of any importance in Ayrshire. It may be interesting to state that the firm which is known all over the world as Messrs. William Baird and Company now consists of only two partners. These are Mr. James Baird, a younger brother of William, who founded the Gartsherrie Works, and Mr. Alexander Whitelaw, who is a nephew of Mr. Baird on his mother's side. All the other members of the Baird family have "crossed the fatal bourne," and the works are now controlled almost entirely by Mr. Whitelaw, Mr. James Baird having ceased to exercise any active supervision over their operations.

The Messrs. Baird commenced their career as ironmasters in the year 1830, when they put the first furnace in blast at the Gartsherrie Works, which have already been described in these columns. Their mext venture was the Eglinton Ironworks, near to the "Auld toon o' Ayr," which were projected in 1846. There is little to call forth any special remark about these works. The furnaces are all of the usual open-topped description, and their height varies from 50 ft. to 60 ft. All of them are pretty old, and neither of them have been adapted to the improvements introduced within the last two or three years. There are seven furnaces in blast at the prosent time, one being always kept under repairs. The average annual production of these seven furnaces will exceed 50,000 tons per annum. The production made, the state of the atmosphere, or the condition of the furnace; but taking it all round, it will not be under 25 tons every two abifts, or in other works every 24 hours. Blast is generated in the naul way by a pair of large blowing-

In addition to the Eglinton Ironworks the Messrs. Baird own other four establishments of a similar character in Ayrshire. These are respectively the Blair Ironworks, at which there are five blastfurnaces, and which the Gartsherrie firm acquired in 1852; the Lugar and the Muirkirk Works, which possess, taken together, seven blastfurnaces, and which they acquired in 1856; and the Portland Ironworks, with six blast-furnaces, which they acquired in 1864. The total make of all these works, inclusive of Eglinton, is upwards of 150,000 tons per annum. They are all built on much the same principle, there being little or no material difference in their structural attrangements. A network of private railways affords communications of the structural attrangements. arrangements. A network of private railways affords communica-tion with the chief shipping ports, and with the extensive mineral fields of which the Messrs, Baird are lessees.

The Messrs, Baird feed all their works from the same sources.

The Messrs. Baird feed all their works from the same sources. They are, without exception, the largest mineral lessees in Scotland, and owning, as they do, extensive tracts of minerals in all the principal fields, they have every facility for mixing the best qualities of ironstone in the same brand. At an early period of their career they acquired about 5-16ths of the whole of the large Airdrie blackband field, discovered by the well-known Mushet, and extending to fully 4000 ages, and from this field, they still continue to work without morey in your hands, to pay over to the one who writes the most any immediate prospect of exhaustion. On the Monkland estate they work both coal and ironstone very extensively, having three they work both coal and ironstone very extensively, having three they are they work both coal and ironstone very extensively, having three they are they work both coal and ironstone very extensively, having three they are they are they work both coal and ironstone very extensively, having three they are the they are the they ar

in the direction of introducing coal-cutting machines at their pits at Gartsherrie. There are now four or five of these machines in operation, and their results have been so satisfactory that it has been proposed to extend their operation to all the mineral workings belonging to the firm. The principle of the coal-cutting machine, which is the patent of Mr. J. Alexander, of the Gartsherrie Ironworks, is very simple. The working parts are carried on a horizontal iron frame running on four wheels, which rest on a pair of rails, and are by preference quite plain, or unflanged. The coal is cut by a modification of the familiar arrangement of cutters on an endless chain, distended by a jib projecting out horizontally from one side of the frame. The of the familiar arrangement of cutters on an endless chain, distended by a jib projecting out horizontally from one side of the frame. The wheel that moves the chain is underneath the frame, and fast on a vertical shaft passing up through a tubular support fixed to it. On the vertical shaft there is an eccentric, or crank, the strap of which is connected to a lever arranged with a pawl to act on a ratchet wheel fixed to a barrel, on which a chain or rope is wound. This chain is passed round a pulley held at a fixed point ahead of the machine, and the end of the chain is returned and fixed to the frame, so that the winding up of the chain produces the requisite progressive movement of the machine along the rails. It is difficult as yet to estimate the full value of this machine. Apart altogether from the economical results it will effect a change most grateful to the miner, by relieving him of the most difficult and unwholesome portion of his work; and there appears to be every reason for the conclusion that sooner or later coal-cutting machines will come into universal use.

AGES OF COAL MINERS.

SIR,-I think the table which I beg to send you will interest your many readers. The results, as regards Cheshire and Somersetshire, are from personal investigation; and, as regards the North of France, from "Les Houillères," in 1872, by M. Burat. It has, I think, been, more frequently than facts justify, the fashion to make comparisons between English and foreign social results as regards miners, to the prejudice of the former, and I shall be glad if you will insert this table as an instance:-

Ages of	in	rso	ns em- ieries.	Cheshir	e. Som	ersetsh	ire. Pa	s de	Calais.
Un	der	20	***************************************	. 27.909		40.625		. 35.	7
20	to	30		26.100		23.118		. 21:	3
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COAL IN SCOTLAND.

COAL IN SCOTLAND.

SIR,—No one would more regret than yourself than that, by inadvertence, anything in the Mining Journal should tend in the least degree to mislead. The question as to coal being found "between London and Dover" has not the slightest light thrown upon it by the fact that coal is found in Sutherland.

The Sutherland coal is an oolitic bed, similar to that found at Danby, in Yorkshire, and has no more connection with the coal of the true coal measures than chalk with granite. The oolitic formation, from its unconformability with the coal measures, may, it is true, be immediately superjacent to true coal seams, and similarly the chalk and green sand. The latter is the fact in the Pas de Calais; and the possibility (and, in my mind, the very great probability) of a similar condition of things existing in Sussex is the basis of the expectations of those who are about to make the trial there. Please bear in mind that the Sutherland coal is in and not under the oolite.

grind 25½ tons of tin rows in 24 heurs, with 9 to 10 horse power. Grates used are No. 30, Birmingham wire gauge, and at work at Wheal Jane (Kea), Cornwall.

LIMESTONE DEPOSITS AS TRUE FISSURE VEINS.

SIR.—It is difficult to say what absurdities may not be tolerated and obtain currency in regard to mining when it suits the interest of parties to propagate and endorse them. It may sometimes be true that truth is more surprising than fiction, but it is positively the case that fiction or falsehood in many instances, when devised to allure or deceive, transcends the utmost bounds of all charitable construction. It says always those the that we are suppressed to all the says always the says that the says always are says and the says always always the says always are says as a says and the says always alwa construction. It seems almost incredible that any sane man, avowing the slightest pretensions to general mining knowledge, could ever seriously affirm that "within the range of my own experience and observation irregular deposits of metallic minerals are commer-

and observation irregular deposits of metallic minerals are commercially and intrinsically of equal or greater value to mining than the product of true fissure veins." Such an assumption appears to me as evidence of a very circumscribed and exclusive experience, or else it must have been prompted by motives of self interest. This view admits of but one alternative—either ignorance or design must have prompted such an effusion.

Mr. F. Wm. Mansell, in the Supplement to the Mining Journal of May 4, superficially reviews the situation, and publicly endorses the views expressed by Prof. Clayton, and seemingly alleges, as a decisive consideration to his endorsement of such views, that a distinction exists, but is too frequently lost sight of, between the commercial interests of mining and its absolute intrinsic value; and this in the sense that the activity of market operations, for however limited a period, ought to be used as a set-off, to at least some extent, against a deficiency of solid worth and value. It would be well if the line of demarcation could always be intelligibly maintained between the commercial and positively practical interests and results of mining. of demarcation could always be intelligibly maintained between the commercial and positively practical interests and results of mining, without striving to confound them, as Mr. Mansell has done. It is sufficiently well known, independently of the candid admissions of any sharebroker, that the sensational class of mines has long been preferred by that fraternity to the permanently solid and regular productive and well conducted class, whose developments are prosecuted strictly upon the merits of the respective mines, and in the interests of the shareholders.

secured strictly upon the merits of the respective mines, and in the interests of the shareholders.

The relative merits of the two classes of metalliferous deposits has long since been determined in favour of true fissure veins, and it will require something more than the gratuitous opinion of any man to reverse that verdict. The signs of the times are evidently indicative of a retrograde movement. When the temerity of comparative inexperience—than which there is none greater—leads its subject to aim a blow at the root of facts, as invulnerable and incontestible in themselves as the plainest and most palpable object in the universe, it is surely time to oppose some check to such absurd and mischievous notions. It looks too much akin to calling light darkness and darkness light to be allowed to propagate unrefuted. Phantasmagorial representations of mining fail utterly to affect those who are fully acquainted with the business; but, unfortunately, as much cannot be said of the speculative and investing classes. And it is for these principally that baits are laid and nets are spread. It is all as one to the victimised whether ignorance or design led to their misfortunes. The former is inexcusable, the latter is simply execrable.

when the chalk and green sand. The latter is the fact in the Pas de Case lais; and the possibility (and, in my mind, the very great probability) of a similar condition of things existing in Sussex is the basis of the expectations of those who are about to make the trial there. Please bear in mind that the Sutherland coal is in and not make the collection of the suspension of the suspensi

wrought profitably to a perpendicular depth of nearly half-a-mile

The Comstock lode of Nevada, unquestionably the richest which has ever been discovered, is a true fissure vein. Perhaps Prof. Clayton will kindly inform us how favourably the best limestone deposits in the State, or on the coast, compares with that vein.

has ever been discovered, is a true fissure vein. Perhaps Prof. Clayton will kindly inform us how favourably the best limestone deposits in the State, or on the coast, compares with that vein.

It has seemed convenient and very congenial to sundry individuals to institute a comparison between the Eberhardt Mine of Nevada and the Charnacillo Mines of South America, but upon what data I have yet to learn, except it be that the country rocks in both instances are limestones. It would certainly provoke a smile to hear anyone allege, whilst prosecuting mining operations in one part of the globe—in granite, for instance—that good mines were found in another or other parts of the globe in that formation. A generic term by-the-bye, for a class or family of rocks, just as limestone is for another, whilst all other features and lineaments which might constitute some sort of similarity were totally disregarded. But if they have nothing in common with each other besides a family relation, with what motives, it may be asked, can forced comparisons be instituted? The most excusable which can be entertained in this regard is that they emanate from ignorance, and of that class possibly which arises from the absence of a due appreciation of what is strictly right. If mines recently costing heavy sums in their purchase are found to belie expectations, upon whatever data they may have been founded, the sooner the merits of such mines are properly understood—for we cannot entertain a doubt but they have some merits—the better it will be in the interests of mining. And as a general rule for all parties concerned, all efforts addressed to exaggeration can only result in a one-sided success, for whatever may be the gains of one party by mere market operations, that must always constitute the exact measure of the losses of the opposite party to the transaction, because such occurrences are operated independently of the true merits of individual enterprises, and therefore, work no good, but a positive injury, to mining. Mr. Mansell, in

STRIKES-A PRUSSIAN IRONMASTER.

Sm,—With reference to the present question of work and wages, it may not be uninteresting to the readers of your so widely-spread paper to peruse the following address to his workmen by Mr. Krupp, the steel gun manufacturer, of Essen, Rhenish Prussia; and I shall be happy if you can make any use of it.

paper to peruse the following address to his workmen by Mr. Krupp, the steel gun manufacturer, of Essen, Rhenish Prussia; and I shall be happy if you can make any use of it.

Translation from the Royal privileged Revlin Gazette of Jane 27.

Essen, June 24.—Thefollowing placard hasbeen posted upon Krupp's workshops:—To The Workmen or The Cars-Treet. Wonks.—Forty-vie years ago I was one of the few workmen in the original ruins of these works—my patrimony. The daily wages of smiths and puddlers had then been raised from 18 stuber to 1½ silver groschen (about 45. 1½ d.). Ero 15 years I gained no more than to enable me to pay the workmen their wages; for my own cares and labour I acquired nothing more than the consciousness of having done my duty. With the change of affairs in general and the progressive success of these works I gradually raised the wages, as an invariable rule, of my own will, never waiting to be asked for it. That rule shall always remain in force. One useful institution after another has been made, and many more yet are in abeyance. The utmost exertions have been made to forward the interest of the workmen, and their dwellings in progress may be counted by thousands. When all branches of industry were lying low, when orders were not forthcoming, I still worked on, and never dismissed one faithful servant. Many of an advanced ago are here now who can prove this. Ask them what had been done for them in the year 1348. The recent sacrifices during the years of war are well known to you all. Who can count the loss caused by the present want of coal? Mutual confidence has made these works great. I know that I deserve and possess your confidence, and therefore I address these works to your entire destruction, so that they may then east their nets in troubled waters. Ask after the antevidence of your class. They work with all their influence for your entire destruction, so that they may then east their nets in troubled waters. Ask after the antevidence of voice and the salvays been as law to them, will c

STRIKES-No. II.-CORNISH MINING.

Sin,—Just a century ago the population of Europe was estimated at 30,000,000 souls, and now it has grown to 300,000,000, and is rapidly increasing. Trade and commerce keep apace, while the social and enlightened position of the masses have advanced in proportion to the expanded population. In England the community has more freedom and action in political and industrial affairs than the excepted upper ten, coupled with the noblemen of other countries. England prospers and advances beyond any other nation, not only in commerce and trade, but likewise in the sciences and arts, intellectual and moral culture, extended labour, remunerative wages, abridged hours of employment, and freedom of choice in the selection thereof, with independence of working or not, as the caprice or interest of the employee shall determine. Yet, with these advantages and a number of others in their favour, there is more discontent throughout the industrial classes of England than at any other period in her history. Judging from those who have recently paraded the streets of London in processions, with "drums and banners," they are certainly composed of the very dregs of the workmen of England; they exhibit the lowest scale of intellect, the slightest amount of sinews, and the most dissipated countenances of any collection of men that Just a century ago the population of Europe was estimated and the most dissipated countenances of any collection of men that I ever witnessed; and, for the benefit of the industrious, steady, and deserving artizan, mechanic, and workman, it appears to me that the sooner they emigrate from this country the better it will prove for all who are left behind; while it appears, still further, that those who serve support and countenance have really to subscribe funds to feed and clothe those qualified and reckless workmen and roughs who ere out on strike

What will be the effects of these strikes on Cornish tin and copper The workmen are scarce, and the wages of the best tin range from 41. 10s. to 51. per month; still the great mines continue to pay immense and advancing dividends. Will the force of example extend to such mines as Dolcoath, Tincroft, and Carn Brea, and pray what would be the effects in case it did? A three months? pie extend to such mines as Doicoath, Tincroft, and Carn Brea, and pray what would be the effects in case it did? A three months' strike would cost the adventurers at least a year's dividends, and depectate the market value thereof at least 50 per cent. Yet, what is more reasonable than to speculate on the possibility of such a catastrophy, for men are scarce and in request, while the captains of mines are compelled to conciliate the miner rather than to compel him to do an honest and full day's work. I can remember the time when at East Crofty the men changed places underground at 6 o'clock in the morning, at 2 in the afternoon, and, lastly, at 10 at night, thus having eight hours of full employment from each core of men, while the morning, at 2 in the afternoon, and, lastly, at 10 at night, thus having eight hours of full employment from each core of men, while

every man who failed to relieve in time was fined 2s, 6d. for his ne-glect of the regulations under which he was employed; and pray what was the remuneration of the best "tutwork men" at that pewhat was the remuneration of the best "tutwork men" at that period?—2l. 5s. to 2l. 10s. per month, or (say) about 30l. a year. Shaftmen who worked in wet and dangerous places had exceptional and better wages. If strikes prevail in the North of England, and throughout the coal and iron districts, where population is dense and rapidly becoming overwhelming, how much more readily could the miners of Cornwall combine and dictate to their employers more feavourable conditions and higher wages than at present prevail? To take a practical view of the question, is it not a fact that captains of mines stand more in fear of losing their men than the miners do of finding employment?

stand more in fear of losing their men than the numers door industry employment?

It is necessary that landlords should be liberal in reducing their dues or royalties to encourage the flow of money from absentees into Cornwall, the cornicopia of wealth of the mineral world, and also the recepticle of vast sums of money subscribed to work their mines, which in many instances never return a shilling in the shape of dividends. In dressing tin the metal is separated from the matrix by its specific gravity, and the cornicopia is surrounded by water. No money is allowed to cross the Atlantic, nor do they allow much to escape beyond the waters of the beautiful Tamar; hence Cornwall is advancing in wealth, social and intellectual culture, increased employment, and higher remuneration to workmen.

R. Tredinnick,

3, Crown-court, Threadneedle-street, July 10.

Consulting Mining Engineer.

N. ENNOR'S REMARKS ON TIN AND THE TIN STAMPS, &c.

N. ENNOR'S REMARKS ON TIN AND THE TIN STAMPS, &c.

Sir.—Agreeable to my promise I take up these subjects, first remarking that in nearly every case the tin is not liberated from the stamps cover quick enough; it remains under the heads until nearly all the young and best tin is reduced to a slime. Then I may remark that all the young and best tin is softer, and of a lighter specific gravity, than the older portions of the tin. I have a specimen of tin by me from Spain—a finer specimen is seldom found in any part of the world. I took it to a Cornish tin mine where they had a large five stamps working on rather low produce tinstuff, but well managed by a first-class tin dresser, the mine paying dividends. He said it was the finest specimen of tin he ever saw. I said I did not think it was tin. He persisted it was the very best of tin. I knocked off a portion for him to "van." He bruised it roughly; it then looked well on the shovel. I bruised it again and again, until it began to run on the shovel, we bruised it so low that it was all carried off in the water. He then said he was never so deceived; he would have swornit was the best of tin. He was quite right, it was the best of tin, such as Cornishmen call grain tin; and it is bought and smelted by the Spaniards as such. This is the case with all the best Cornish tin; it is bruised to a slime, when the very best goes off in slime, and a deal of it is not caught.

This is not only the case with tin; all ore does so if bruised low and washed in water. Lead goes off bad. I know where lead is dressing in this way at the present day, and they lose the best portions of lead, and a large percentage of silver. I was once compelled to reduce the water into slime ponds, and this, with what I washed out I afterwards sold to Lucas and Son, of Beeralston, for 29. 5s. The 2 tons taken out fetched on or about as much as all the crop of 8 tons. Being satisfied on these points, I may fairly throw out a few hints to the mine agents and tin dressers, to see if they agree with me w

best of tin is reduced to a slime too low to be caught by the mine owner; in that case we Cornishmen ought to unite and find a remedy. Having taken up these subjects, I may say I am bound to give my views and remarks upon them. As I have taken out a patent for stamping, I have given these points full consideration; and, as a remedy, first I purpose to liberate the tin from the cover as quick as possible. To do this I purpose to fix rough grates within the cover—say, standing at an angle of 45°—that will throw back all the rough above an 8-hole size under the heads again; then all that goes through shall go through around revolving griddle, holed a size larger than the required grate; what passes out at the end of the larger than the required grate; what passes out at the end of the griddle to be again returned to the intake. All that goes through the griddle passes to a long jigging sieve, similar to what is now commonly called the "drag;" but it should be a jigging sieve, lifted at one end—say, about 10 times per minute—the other end being lung similar to the fore end of a smith's bellows; let it be fixed in a well-contrived butch, when the rough and butched tin will be found as similar to the fore end of a smith's bellows; let it be fixed in a well-contrived hutch, when the rough and hutched tin will be found as ragging in the sieve; nearly all the better portions of the tin would be in the hutch. I think three quarters of the tin would be found in the sieve and hutch, and three quarters of all the stuff would pass out at the end of the sieve, and would be so poor that it might be got rid of much quicker than by the present process; this should again pass through a second round griddle to make two sizes of it, the foul water going to a slime pit, which I think would be of little value.

value.

I erected the round buddles on the Mendip Hills to work sand and slime 30 years ago, and worked the round grates and the jigger. I may mention they all answered well for lead; then what is there to prevent them answering for tin?

I must next turn to the stamps, but I leave that for the letter to

St. Teath, Camelford, Cornwall, July 9.

WEST BASSET MINE.

WEST BASSET MINE.

Sin,—In the statement of accounts submitted to the shareholders at a general meeting held on the 27th June, appears under the head of expenditure (although not paid) a charge of 1750, for "commuted law charges as per agreement with Mesers. Smith and Roberts," solicitors to the South Frances Mine. As this heavy sum may appear to others besides myself to require some explanation, which should, I think, have been given by the committee, it made some remarks upon the item brought into the accounts. In conducting the expensive lawsuit between this mine and South Frances, which is said to be now terminated, the solicitors to the latter mine had incurred a heavy bill of costs as against the company, and which ought to have been paid long ere this out of that company, and which ought to have been paid long ere this out of that company, and which ought to have been paid long ere this out of that company, and which ought to have been paid long ere this out of that company, and which commencement of next year, and in order to obtain a renewal of the same is appears, if I am rightly informed, that new leases will be granted contingent upon the payment to Messrs. Smith and Roberts of a sum of money as a compromise for their claim against the South Frances Mine. From information that I obtained in the county, I believe that an arrangement of this kind has been settled—i.e., that South Frances shall pay 1000/t to Messrs. Smith and Roberts, and that West Basest is to be burdened with a payment to those gentlemen of 1500/i, in discharge of their claims for legal services rendered in carrying on the suit against the West Basest Mine, or, in other words, for a debt actually incurred by the South Frances Mine.

As an ex-shareholder, and for many years interested in the mine, I must say that this extraordinary arrangement, assuming that I have been correctly advised, is one that no shareholder should sanction, and I must express my surprise that a renewal of the lease of a well-managed mine for many years should

of beamdary.

If the committee and their friends, who are the principal holders in the mine, feel disposed to contribute out of their own pockets 1750/, to Messrs. Smith and Roberts for a certain consideration, by all means let them do so; but to burden shareholders, many of whom have only recently come into the mine at high prices, with such a charge is simply discreditable to the executive, and one that were I still a shareholder I would resist to the utmost of my power. That two or three shareholders holding, perhaps, a majority of shares in a mine are to be permitted to play "ducks and drakes" with their co-shareholders' money is certainly contributed to the property of the shareholder and the statement of the contribute of the shareholders' money is certainly contributed to the statement of the shareholders' money is certainly contributed to the statement of the statement of the shareholders' money is certainly contributed to the statement of the statement

* Published by Stevens and Son, 119, Chancery-lane, London,

trary to all law, and I question whether the Star would sanction for one moment such flagrant brought before them.—London, July 11.

LEAD MINING IN SHROPSHIRE-THE BOG MINE.

LEAD MINING IN SHROPSHIRE—THE BOG MINE.

SIR,—When my statements were impeached by an anonymous correspondent in the Journal, I considered it my duty to give my respondent in the Journal, I considered it my duty to give my resons for drawing the conclusions I had with respect to the question of the sufficiency of the company's available capital to unwater the shaft of this mine; but how Col. Corbett can say that I have made pertinacious attempts to bring discredit upon the property I am somewhat at a cost to understand, as I have always had the same opinion of the mineas the same opinion of the mineas the same whereby large dividends will be paid, and the sharcholders rewarded for their patience and outlay: but the question is, when will this happy state of their rive, and is the company's available capital sufficient for the purpose?

I stated in my letter of May 30 that it had not only taken nearly eight months to fork or unwater the shaft less than 26 fins., but that the expenditure during that period could not have been less than 2001, over and above the returns assist ore, and this statement is more than verified, for I find from the reports presented to the annual general meeting, on June 26, that the balance remaining of the 400, stated to have been in hand in October, 1871, is only 1671, 148, 40 that the present available was a summing there is but 35 fms. (which I question) still tous realised 3510/, 138., or in all 5832/, 188. 8d., in forking or unwatering ampear to have realised 3510/, 138., or in all 5832/, 188. 8d., in forking or unwatering the mines from 6 ft. below the 80 to about the 115, considerably less than 35 fms. What do we arrive at from this, even assuming there is but 35 fms. (which I question) still founties that the present available balance of 16771, 148. 4d. will be exhausted long before the bottom of the mines can be reached?

I am not at all surprised that Col. Corbett, holding such a large share in the mine, should attach great weight to the statements of "Old Miner," nor that he

THE EMMA SILVER MINE.

THE EMMA SILVER MINE.

Sir.—Your correspondent, "A Shareholder," while pointing out the "carious coincidence that the Standard was the only daily paper which threw open is columns to Messrs. Johnson and Lyon," adds, "I have reason to know that its columns were closed to any warning voice from the shareholders whose interests were being so grossly stacked." However reliable the first proposition may be, I can "rucch for the second as an indisputable fact." Observing communications and telegrams from Messrs. Lyon and Johnson, in the Standard, the object of which (a not irrational inference, I opine) could only be to depreciate the value of the property of the company; and, having received circulars from Messrs. Lyon and Johnson, the tendency of which was, clearly, to create discontent in the mind of the recipient, I felt it to be a duty due to myself, and to the company to which I belong, to remonstrate through the same channel (the Standard) against the liberty which had been taken with me by these men, and to repudiate (as perfect strangers to me) their "apparently benevolent advice."

From what I had seen and heard, I came to the conclusion that the alarming statements (collapse, imminent, &c.) put forth by Messrs. Lyon and Johnson, and "gratuitously forced upon my attention," were made from sinister motives, and not with a view to my aggrandisement. Feeling that hundreds, ape thousands, do pounds were about to be wrung from the pockets of unsuspecting and timid have holders, I addressed a letter to the Editor of the Standard, and stated what I lad seen and all I knew about Messrs. Lyon and Johnson. To my great surprise, for I used to think it was the province of a "great paper" to protect the public, and, considering the numerous and varied interests at stake, no notice whatever was taken of my communication by this "the largest paper in the world."

If, Sir, thousands upon thousands (and I fear it is so) have been taken from the pockets of small shareholders (male and fermale) by the exaggreated statements o

THE EMMA MINING COMPANY.

THE EMMA MINING COMPANY.

Sir,—I happen to be a small shareholder in the Emma Mining Company, I am, therefore, constantly receiving circulars from Messrs. Johnson, Lyon, and Co. diparaging the mine, and inducing me to part with my shares.

Now, Sir, why are these sent to me? I don't want them. I don't know Mr. Johnson, nor Mr. Lyon, and I don't want to. They may be respectable men, and their statements may be true, though they have internal evidence of being otherwise. But if persons spend their money in postage and printing, and gratuitonsly send their effusions to me, I ask myself what is their motive? And whatever that motive may be, I conclude it is not my interest but their own. I have had my shares from allotment, and if Mr. Johnson will allow me I mean to keep them.

A few months ago we were carnestly informed that the mine itself was of little value, and the company itself a "Yankee do;" because the vendors had contracted to sell some shares on a certain date at a price lower than the market quotation of a later date. Now, I am persuaded that my shares are worthless, on ground far different. I am told the mine is ruined with water, and that the ore can, therefore, be no longer raised. I am told in the same breath that a certain unale company, with whom the Emma Company in its prosperity had been on amicable terms, suddenly selze the mine by force, and kill the foreman in doing so.

Now, its seems to me that the mine must be valuable, or else the tunnel company would not go to such violent and unlawful measurest og et possession of it. But is it not strange that the tunnel company, if it really did adopt such desperate measures, should calmly wait till the mine had "caved in" and was worthless, and then size, it at precisely the very moment when it was not worth seizing? I contend that if the mine is my the mine had "caved in" and was worthless, and then size, it at precisely the very moment when it was not worth seizing? I contend that if the mine is must be on account of its immense value. In this case

SOUTH AURORA MINING COMPANY.

SOUTH AURORA MINING COMPANY.

SIR,—Two letters appeared in the Journal last month from shareholders in the above company, asking the directors to give some authentic information relative to the present position of affairs, and the rumoured reports of fresh discoveries of ore. To neither of these has Mr. Satterthwaite and his co-directors wouchsafed any reply. He and they might have been excused for taking no notice of what they may choose to think or call anonymous writers had they taken any steps to assure the shareholders on points which they have to glean from other sources than those from which they have a right to expect information—their own directors. It would at least be a courteous act, if not a part of their duty, to impart a little of the knowledge they must possess respecting the mine. It is about six months since that meeting, and since that time I am not aware that any information with respect to the South Aurora Mine has been imparted to the shareholders by the directors, but we hear from this side and that side, from local papers and other vague sources, that a good time is coming. That it may soon come is the present wish of—

London, July 9.

[For remainder of Original Correspondence see to-day's Journal.]

EAST CARADON MINE-SPECIAL REPORT.

EAST CARADON MINE—SPECIAL REPORT.

Gaucton Cypper Mine, July 8.—East Caradon: In accordance with instructions, I carefully inspected this mine on the 3rd inst., and beg to hand you the following as my report thereon:—William's engine-shaft is sunk perpendicular 130 fathoms below didt, making a total depth of 150 fathoms below the surface; at the bottom a cross-cut is put out south, 50 fathoms, and intersected three lodes, known as the caunter lode, Child's lode, and south part of Child's lode, the latter being in theend of drivage, which is small and poor so far as seen, but deserves a little further prosecution: 12 fathoms behind this end, or 38 fathoms from shaft, Child's lode is laid open 5 fathoms east of cross-cut: throughout this drivage the lode is small, and not of much value, but the ground in which the lode is embeded is exceedingly favourable, and of a very congenial description, and in all probability will be found productive going east towards the eastern cross-course. The caunter lode, near the shaft, is laid open by a drivage east some 20 fathoms, and suspended, being unproductive throughout.—Caunter Lode: The 115 fm. level is extended 10 fathoms east from the eastern cross-course, where the lode is 6 ft. wide, worth 20. per fm. and showing a very kindly appearance; this is a very important feature on the cunter lode, and likely to improve going down in connection with the cross-cours. The 115 fm. level, on Child's lode, is driven west of cross-cut 26 fathoms; the lode is 3 feet wide, at present not of much value, although showing a kindly appearance and likely to improve shortly; in the back of this level 15 fathoms long, the lode is worth from 15t. to 26t, per fathom. The 100 fm. level, on Child's lode, is driven south 7 fathoms howing a kindly appearance and likely to improve shortly; in the back of this level 15 fathoms; is also a point of interest likely to increase the reserves of ore. At this level, on both north and south lodes, all the ore ground remains to be taken away at a good profit

LONDON GENERAL OMNIBUS COMPANY,-Traffic returns for the

COAL MINES REGULATION BILL.

COAL MINES REGULATION BILL.

Upon resuming the consideration of this Bill, the Committee of the House of Commons, upon the proposition of Mr. Bruce, agreed to a House of Commons, upon the proposition of Mr. Bruce, agreed to a Moss of Commons, upon the proposition of Mr. Bruce, agreed to a "No proceedies" on shall be instituted against the owner, agent, or manager of a "No proceedies of the district of summary jurisdiction, except by an inspector, or with the office of the string of a Secretary of State and the office of the string of a Secretary of State and the office of the owner owner of the owner owner of the owner ow

chance of preserving the best men on whom the security of the mines depended. Jower was given to the Secretary of State to determine the number and remuscation of the examiners.

An amendment was proposed to Clause 5 by Mr. C. Seely, to the effect that the diserctionary power conferred on the Secretary of State to determine in what cases children under a certain age should not be employed in mines should only extend to mines a present at work, and to such mines only for the period of five years to state the passing of the Bill. Lord F. Cavendish hoped the House would not adopt ster the passing of the Bill. Lord F. Cavendish hoped the House would not adopt ster the mendment. The question had been thoroughly discussed during the last few years, and the persons connected with thin-scanned collicries in his constituency had requested him to submit their views to the consideration of the House. Having made enquiry into all the circumstances, he was bound to say that this kind of independent of the consideration of the House. The properties of the principal managers of a very important industrial school at Leeds was to the ame effect. That gentleman informed him two or three years ago that the number of boys apprenticed from the school was 53, and that this was found to be a very good way of disposing of the boys. They were provided with a comfortable home, they liked the work, and the living was very good indeed. The same gentleman added in a number of the properties of our schools. As far as I have seen pitwork does not make boys despendent of our schools. As far as I have seen pitwork does not make boys despendent of our schools. As far as I have seen pitwork does not make boys demendent, because its effect would be to seen all young boys into the mills." He objected to the amendment, because its effect would be to seen all young boys into the mills instead of allowing them to follow the occupations of their fathers in the collicries. Toon the reconsideration of the Bill, on Thursday, the question of the employmen

METALLIFEROUS MINES REGULATION BILL.

In the House of Commons Committee on this Bill an amendment was agreed to in the fifth clause, providing that "in the case of boys was agreed to in the following male persons, whose employment is at such a distance from their ordinary place of residence that they do not return there during the intervals of labour, and who do not work more than 40 hours in any week, an interval of not less than eight hours shall be allowed between each period of employment." Mr. Bruce proposed an amend-ment to clause 8, providing that "in the event of any contravention shall each be guilty of an offence against this Act unless he satisfy the Court that he had taken all reasonable means for the enforcement

the Court that he had taken all reasonable means for the enforcement of such provision."

The abuse of the "doctor and club" system which prevails in the Cornish mines was fully pointed out by Mr. Magniac, who remarked that many thousands of miners for the last three years had watched this Bill with a view to getting a remedy for a most crying grievance. He had recired scores of letters on the subject, which had been discussed in the newspapers of the country, and the unanimous opinion of the Press was that a most fearful abuse had been exposed. In 1889, when he first took up the subject, a reduction of one day's wages a month was made from the miners' earnings, and this money was paid to the mines doctor for attending the miner and his family in sickness. That was an equitable arrangement in itself, and would be highly beneficial if properly earlied out. But it had occurred to many managers of mines who had young relations dependent upon them that the position of doctor to a mine was a very comfortable berth, which might be made the means of taking those young gentlemen of 15 or 18, without any regard whatever to the bent of their minds, were sent to walk the London hospitals, and after a few years a youth of 20 or thereabouts came down to attend these miners and their wives in fever, childbirth, and other cases. These young men were allowed to live four, five, or six miles from the mine, and he was acquainted with an instance in which the doctor lived at a distance of 17 miles. That was a state of affairs which should not be tolerated. But that was not all. These mine surgeoncies had been put up to sale in the profession. For instance, A sold his charge for 2007, a year to B, who sold it again for 1007, to C. In fact, a case had occurred in which that had been bought for 800, or 907, a year which in the first instance hud been sold for 3007. He knew several mines in Cornwall in which the managers, having had their attention called to those things for the first time, had made arrangements for placing some such of the mines. An honorary member of this House, whose interest in these mines was second to none, had lately made arrangements for giving the men the choice of their own doctor. He knew of a mine in which there were three doctors to attend to 600 men, of whom Dr. A attended 400, Dr. B. 190, and Dr. C 10. Such a fact as this showed a desire on the part of the men to choose their own doctors; and it was a scandal that there should be any system by which the manager should be empowered to job away the lives of the men under him to Dr. C. This provision was not too minute to be inserted, which contained rules quite as minute. The amendment which he moved provided that—"No deduction from wages, or money in the nature of wages, payable to any such person shall be made for the purpose of providing him with medical attendance, unless a special rule shall be in force in manner provided by this Act, whereby there shall be secured to him the selection of a medical practitioner out of such a number as it may be deemed expedient to nominate, having regard to the number of persons employed in the mine, and to the locality in which it may be situated. No deduction shall be made as foresaid as a contribution to any benefit, sick, or accident fund or club unless under alike special rule providing for the publication, in a convenient manner, of the recipite arising from such deductions, and the payments thereout."

Mr. St. Aubyn was sorry to say that it was within his own personal knowledge that a great deal of what had just been stated to the House was true. He desired the support his hon, friend in giving to the men the power of selecting their own footers, but regarded the latter part of the amendment as unnecessary, and suggested the omission of the words following "the selection of a medical practitioner." If the amendment were so limited he should support it.—Colonel Hogg could confirm every word that had been uttered by the hon, member opposite. The greatest possible abuses existed with regard to medical attendance, some

elf and his children. and his children. It. S. Beaumont and Mr. Bruce objected to the question of deductions being ad on the present Bill; and Mr. Pease stated that there was great difficulty in

electing a medical man by the vote of the men. In one case in which it was tried the men elected the doctor, who on the previous pay-day had given them the greatest amount of beer, and who two months afterwards botted in debt to all the neigh bouring tradesmen. That those who paid the piper should choose the tame was a generally accepted principle; and the mine owners paid the medical men, the miners subscribing only part of the payment. Besides, the owners paid every man who was off work on a certificate from the doctor, and in some cases found hospitals for the men; and would it be fair for a doctor appointed by the men to have charge of these hospitals, and to give such certificates? If this proposed amendment were carried, it would shut up some of the most useful institutions the mining districts could beast of. The amendment was ultimately withdrawn, and the clauses up to Clause 22 agreed to with unimportant amendments.

MINES AND MINERALS.

In order to determine whether an excavation in the earth constitutes a mine, legally speaking, or not, one must, according to Lord Tenterden, C.J., look to the mode in which the substance is obtained, and not to its chemical or geological character (Rex v. Brettell, 2 B. and Ad. 424). A mine, according to Sir George Turner, L.J., is an underground working, as distinguished from a quarry (Bell v. Wilson, 14 W. R. 493, L. R. 1 Ch. 303). In a well-known case, where limestone was got by means of sinking shafts perpendicularly down to the stratum of rock 40 feet below the surface, it was held that the property was a mine, by reason of the mode of working it, and, therefore, not rateable to the relief of the poor, by reason of the implied exemption from rating of all mines other than coal mines by reason of the implied exemption from rating of all mines other than coal mines by reason of the implied exemption from rating of all mines other than coal mines in the side of a bill for the purpose of working a bed of free-tell (ap.) was a similar decision with reference to Stourbridge fire-day, the beds of which lie at a considerable depth below the surface, and are worked by shafts after the manner of coal mines. In Rex. v. Dansford (2 Ad. and El. 568), the question that we have a mine, the manner of coal mines. In Rex. v. Dansford (2 Ad. and El. 568), the question for the side of the hill, was referred back to Quarter Secondary and effect fact, and was there decided in the affirmative. It would seem, then, as if the definition of mines in Jacob's and Tomline's Law Dictionaries, where mines are defined as quarries or places whereout anything is dug, is too large, and that the definition of Dr. Johnson, "a place or cave in the earth which contains metals or minerals," is legally correct, or, at any rate, comes very near to the definition in Bell v. Wilson (sup.).

What, there are minerals? The original meaning of the word must have been substances got by mining—i.c., by underground workings, as distinguished from variance In order to determine whether an excavation in the earth constitutes a mine, legally speaking, or not, one must, according to Lord Tenterden, C.J., look to the mode in which the substance is obtained,

that the produce of an open quarry was not a mineral within the meaning of the reservation.

In Bell v. Wilson (sup.) where the reservation was of mines within and under the lands, whether opened or unopened, the Lords Justices relied on the words "opened or unopened" as pointing to the conclusion that it was not intended to authorise the working of minerals under the lands in question otherwise than by underground mining, and decided the case accordingly. In Durville v. Roper (sup.), which was not noticed by the Vice-Chancellor in his judgement in Hext v. Gill, Vice-Chancellor Kindersley based his conclusion mainly on the ground of intention, it appearing to him that the intention of the parties to the deed was that the exception should include only minerals to be got by underground workings. Upon the whole, it would seem as if the proper conclusion to draw from the cases is, that reservation of mines and minerals includes substances got by surface workings, unless there can be shown some local usage, or something in the grant itself, or in the reason of the thing, sufficient to induce the court to consider the terms as used in the restricted and secondary sense in which they were used in Durville v. Roper and Bell v. Wilson, Hext v. Gill may seem a strong decision, but it should be remembered that the property lay in a district where streaming for tin, which is wholly destructive of the surface, is the commonest of mining operations, and must have been in the contemplation of the parties, though china-clay was unknown at the date of the reservation.—Solicitor's Journal.

GREAT LAXEY MINE SHARES — IMPORTANT LEGAL POINT —

Merfon v. Nelson,—The adjourned summons in this suit, on the part of Mr. G. W.
Dumbell, for an order directing the executor of the late Mr. William Tuxford to
transfer to him 30 shares in the Great Laxey Mining Company (Limited), which
Mr. Dumbell alleged he had transferred, or eaused to be transferred, to the deceased,
in order that the latter might retain his qualification as a director, and on the understanding that they were to be retransferred to him when required, came on for
hearing at the Master of the Rolls Chambers, before the Chief Clerk, Mr. Hawkins,
on June 12. Mr. F. H. Turner appeared for Mr. Dumbell, Mr. Thomas Harvey for
the plaintiff, and Mr. J. P. Poncione, jun., for the executor. The summons habe
heen adjourned for further evidence in support of the application, Mr. Dumbell
having alleged that a letter written by the deceased evidencing the arrangement had
been lost in transmission by post. A further affidavit of Mr. Dumbell was now
produced with the deceased's letter, which, it was stated, had been found since the
summons last came on for hearing; and also an affidavit of Mr. Geach, who transferred the shares to the deceased, and who, it appeared, held them at the time as
agent for Mr. Dumbell; and an affidavit of Mr. Allen, the secretary of the company, who stated his knowledge of the arrangement between Mr. Dumbell and the
deceased. On the part of the plaintiff and the executor it was contended that it
the shares had been transferred to the deceased for the purpose alleged Mr. Dumbell
could not now claim the beneficial ownership, as a right to do so would operate to
render the original transaction fraudulent, the shareholders having a right to insist
that every director should be qualified by shares which were actually his property.
The Chief Clerk after hearing the parties adjourned the summons to the Judge,
and we understand that it is now in the Master of the Rolls paper, and will shortly
be heard in Court, when this important le

DUNSLEY WHEAL PHŒNIX TIN MINING COMPANY .- On the last DUNSLEY WHEAL PHGENIX TIN MINING COMPANY.—On the last call of 10s. per share being made the following circular was issued by the directors:—"Along with the accompanying circular, your directors take this opportunity of informing you as to the present position of the mine. Gregory's engine-shaft and the whim-shaft are sunk respectively 14½ and 17 fathoms, and are being pushed on to cut the main lode, which is expected in a few fathoms further sinking. An old adis at the eastern part of the sett was cleared up, and the end set to drive on the main lode, with most satisfactory results. The lode in the end is reported worth 26, per fathom, and a stope in the bottom, 2 fms. behind the end, 40°, per fathom. The depth from surface here is 32 fms, and as the end goes west towards the shaft a considerably greater depth will be gained. As it was on the surface opperances that the mine was started, it is gratifying to find expectations in some measure realized in depth. The finances of the company are sound. Including the payment of 10s. now due, and after deducting costs up to June 7, there 9700'. in hand for carrying on the works and providing machinery.

ANDERSON, Chairman." -G. STEWART

WHEAL VINCENT (Altarnun).—The engine, boiler, and stamps at this mine were set to work on Tuesday, when the usual treat was given to the workmen. Many of the shareholders were present to witness the start of the engine and to inspect the valuable lode at Nicolis's shaft now hid open, and said to be worth 50°C, per fathom. The engine was erected under the superintendence of Mr. W. Mathews, of Tavistock, the engineer of the company. It is constructed between Nicolis's and the old engine shafts, so as to pump the water from both, and also to work the stamps. The engine is nearly new, and is suitable for the purpose intended. The shareholders sat down to dinner on the mine, presided over by Mr. E. Nicolis, the purser. There were present Messrs. A. Hicks, J. W. Lawry, J. H. Colliver, W. B. Sanders, J. Nicolis, G. Edgeumbe, J. H. M. Edgeumbe; Captains Perran, Hancock, Foote, Thomas, and Odgers, and others. Several gentlemen experienced in mining spoke, and stated that the prospects of the mine were good in every respect. Capt. Foote said he had heard of the fame of Vincent, but he did not believe the property was so good as represented until he saw for himself, when it exceeded his anticipations. The branches of the lode in Nicolis's shaft were tending towards the main lode, and were indicative of a course of tin. Capt. Verr.an endorsed what Capt. Foote had said, and he believed that the shares must advance high in price very shortly, and dividends be declared. Capt. Hancock was pleased with the manner in which the mine was worked. He saw the mine when it was carried on by the old company, and believed that when the water was forked in theold engine-shaft a good lode would be laid open. Mr. Edgeumbe, of London, said he had come down on purpose to see the mine, as he represented the interests of several shareholders in the metropolis, and he was swtisfied with the appearance of the lode. Several other gentlemen spoke in very quodistrict was not so isolated the price of shares would have been high. The agents believe t WHEAL VINCENT (Altarnun) .- The engine, boiler, and stamps at

Meetings of Mining Companies.

TREVESCOE IRON COMPANY.

TREVESCOE IRON COMPANI.

The first general meeting of the shareholders of this company was held on Thursday, at the offices, 8, Old Jewry (Mr. George Peverall in the chair), when the report was read by the secretary and unanimously adopted. From it we learn that, although this enterprise has only been a few months in operation, and was a virgin sett, 400 tons of rich ore have been sold and shipped, and more than 150 tons are ready for carting from the mine. In a short time about 1000 tons per month will be sent off, and arrangements are according. 150 tons are ready for carting from the mine. In a short time about 1000 tons per month will be sent off, and arrangements are accordingly making to secure regular freights to South Wales.

EAST POOL MINING COMPANY.

EAST POOL MINING COMPANY.

At a meeting of adventurers, held at the mine on Monday, the accounts for April and May showed a profit of 1606/. 4s. 4d. A dividend of 1600/. (5s. per share) was declared, and 31/. 4s. 1d. carried forward. The following report was read to the meeting:—

July 8.—Great Lode: The 180 fm. level is driven east from engine-shaft 17 fms., and is worth for tin 29/. per fathom. The 180, west of the engine-shaft, is driven 3 fathoms west of No. 2 winze, and is worth for tin 18. per fathom. The 170, east and west, the same as last reported. There are eight stopes in the back of the 170, two east of the cross-course worth 20/. per fathom, and the others worth 16/. per fathom each stope. There are four stopes in the bottom of the 170 worth 20/. per fathom each stope. The 180 west is driven 8 fathoms west of winze from the 180; the lode in it is small and poor, and ground hard. The ground in the winze is set at 9s. in 1/. tribute. There are two stopes in the back of the 160, west of the cross-course, worth for tin 18/. per fathom, and three stopes east of the cross-course worth 15/. per fathom each stope.—South Lode: The 100 is driven 2 fathoms west of cross-course, and is worth 7/. per fathom. The 180 is driven 11 fathoms west of cross-course, and is worth 7/. per fathom, and a stope in back 12/. The 130 is driven east of the western cross-cut 56 fathoms, and is worth for tin and copper 18/. per fathom. The dialing, which is now settled between us and South Crofty, shows that this stope is 7 feet 6 in beyond the boundary, and that their 140 fm. level is 4½ feet in our right, but as our stope is 8 fathoms high and 4 fathoms wide, the amount of ground is in excess of that taken from us, and not withstanding another encoachment made by South Crofty, on Pryce's lode, of about 3 fms. in length,—W. S. Gaeby, John Maynabp, John Mokkno.

LOVELL TIN MINING COMPANY.

LOVELL TIN MINING COMPANY.

The usual meeting of shareholders in this unusually prosperous mine was held at the offices of the company, Bucklersbury, on Tuesday, Mr. WILLIAM CARPENTER in the chair.

The statement of accounts, showing a credit balance of 5871, having been read, the following report of the manager, Captain John Nancarrow, was put before the meeting:—

July 6.—Since the last general meeting we have enlarged and improved the dressing-floors by the addition of frames, slime pits, &c., and have improved the read to the stamps. The 12 fm. level is driven 21 fms. west of the west-shaft. The lode throughout this driving has been from 12 ft. to 14 ft. wide, composed of chlorite, tin, mundic, and blende, varying in value from 560, to 700, per fm., but worth on an average 650, per fm. It is now open in the end for 14 ft. wide, which is worth 700, per fm.; but there is no wall north nor south, and how much more it may be worth cannot yet be seen. The adit is being pushed on westward, but the ground is hard; and as the tin dips to the west, this level is not yet driven far enough to reach it. The ground about the old shaft being broken, and unsafe for sinking, we commenced a new engine-shaft farther west, which is holed to-day to the 12 fm. level, and when it is squared down we shall at once sink below, where the lode is worth 700, per fm. We have sold since the last meeting 17 tens 1 cwt. 0 qps. 3 lbs. of tin, which realised 1241/108.64, and have only taken away the lode for 10 ft. high. The stamps and dressing apparatus are working well, and the dressing-floors are fast approaching completion. The water has to some extent fallen off from the stamps, but we hope in a month or two it will increase, when we shall sell more than the ware now doing. As we can now sink on the lode as well as drive, we shall not only prove it in depth, but open up tin ground much faster, and have the best prospect of a good and lasting mine.—49.0. Nancarranew.

The CHAIRMAN said he had no doubt that all who were present agreed wi

agreed with him in accepting the report as a very satisfactory one, and he might be permitted to congratulate the shareholders on their good fortume in having an interest in a mine that had, upon a very small outlay, and within a very short space of time, made its way good fortune in having an interest in a mine that had, upon a very small outlay, and within a very short space of time, made its way into the dividend-paying list. (Hear, hear.) They had worked the mine for about two years and a half, only, and he should presently have the pleasure of proposing that a dividend equal to 120 per cent. upon the capital be forthwith paid. (Cheers.) This, he thought, was a very good beginning—only a beginning had. or the should presently have the pleasure of proposing that a dividend equal to 120 per cent. upon the capital be forthwith paid. (Cheers.) This, he thought, was a very good beginning—only a beginning, for, as Capt. Nancarrow informed them that he could not tell how much larger the lode was, neither wall being yet seen, and that the end at present was worth 70°, per fathom, there could be no extravagance in anticipating that it would soon be proved to be worth more than that, and, therefore, that the profit would be increased. (Hear.) As it then stood, however, they were very well off, and had in possession a valuable and, he believed, an enduring mine. (Cheers.) The price of tin, he was happy to say, had again advanced, and according to the reports and calculations of the best judges, it was likely to continue high, subject, of course, to the fluctuations of the market. That was very encouraging for shareholders in tim mines, amongst which the Lovell stood, in its dividend-paying power, fourth on the list, East Pool, Timeroft, and South Caradon only returning a higher rate of interest on the paid-up capital. (Cheers.) The mine, it was important to observe, was being worked in a fair and proper way, making considerable reserves, and not, as was sometimes the case, having its "eyes picked out." But, "as good wine needed no bush," he would not prolong his remarks further than to move that the statement of accounts and the agent's report be received and adopted, and printed for circulation amongst the shareholders. (Cheers.)

The motion having been seconded, Capt. Nancarrow,

dition and prospects, which were well received, and the resolution was unanimously adopted.

The Chairman then said he had the pleasing duty of proposing that a dividend of is, per share be now declared and forthwith paid. The cash in hand, after paying up everything, would enable them to do that, and leave a balance in hand. They had completed their surface works, and everything was in fine working condition, including the manager, Capt. Nancarrow himself. (Laughter.) He congratuated him especially on his management of the mine, and the good fortune attenting it, and hoped they should all work together for many prosperous years. (Cheers.)

Mr. MATHESON having seconded the motion, it was put and unanimously agreed to, A vote of thanks was given to the Chairman, the dividend cheques were distributed, and the meeting broke up well satisfied with the proceedings.

THE MINING COMPANY OF IRELAND.

THE MINING COMPANY OF IRELAND.

The half-yearly meeting of shareholders was held on Thursday, July 4, at their offices, Lower Ormond Quay, Dublir's Sir Robert Kane in the chair.'

The Chairman said it was very satisfactery to the board to have to present a statement of accounts and beliance-sheet of a more agreeable appearance than they had submitted for the last three half-years, during which they had been obliged to show a balance on the wrong side of the sheet. In the current half-year they had been so favoured by circumstances that they were enabled to show a profit of 39571. 13s. 7d., which was available for dividend, and on which the board recommended the meeting to strike a dividend at the rate of 5 per cent. This profit had, to a great extent, resulted from the improvement in the price of copper and lead which had taken place in the last six months. So far as the final winding-up of the account was concerned, they had reason to congratulate themselves as compared with the three last half-years. He would first consider the balance-sheet. The first four items to credit required very little notice, having occupied for many years back the same position in the accounts, consistently with writing off a certain portion of the liabilities until they could disappear altoget. The amount of debts due to the company was 15,000°, as compared with the solid property of the state of the company, when they own 16,000°, as compared with 18,000°. In coal and culm they had so, while in the previous half-year it was not allowed. The other debt to the Royal Bank was morabler. On the opposite side of the account their debt to the Royal Bank was morabler.

The other items stood pretty nearly in the same position.

The other items stood pretty nearly in the same position.

The other items stood pretty nearly in the same po

which along with other favourable results of their working in other departments, enabled the board to present a dividend to the shareholders at this meeting. With regard to the collicries, the results were not altogether so satisfactory. The Silevardagh Collicries, county Tipprary, showed a profit rent of 1413. 19s. 10d. which mas a smaller amount than formerly. This was a result, however, which it would not be difficilled to explain. In the part half-year one of their best collicries, which produced the largest and most profitable coal, was, practically speaking, idle during the progress of necessary improvements—the machinery, &c. In their general collicries the seams were, unfortunately, very thin, and returned a preponderating proportion of culm and only very small coal. This culm was used as fuel by only the poorest class of people in the district. The diminution in the population reduced that source of demand, while the large substitution of pasture for the small farm tilings system, and the adoption of artificial manures under this new system of husbandry, reduced the demand for lime as a manure, in the production of which their culm had formerly been much employed. Then as to the increase in the price of coal, that resulted from the miners' strikes in England and Scotland, the increased wages paid to the miners, and the increased cost of machinery necessary, and of the working expenses generally. They had to compete in this company with the Welsh coal and culm. They had been advised not to raise the price of culm, in order to get rid of the large accumulated stock they had on hand. They increased the price of their coals from 20s. to 25s. per ton in Duhallow, which was out of the way of the Welsh comnectition, but there had not yet been time to mark the profits from that change. He hoped the results of the collicries would be more satisfactory at the next meeting. The Chairman then explained an item of 252, returned as badening and the way such as a substitution, but there had not yet been time to mark

THORNHILL REEF GOLD MINING COMPANY.

THORNHILL REEF GOLD MINING COMPANY.

A general meeting of shareholders was held at the London Tavern, on Wednesday, Mr. WAINWRIGHT in the chair.

Mr. T. THOMPSON, jun. (secretary), read the notice convening the meeting. The report of the directors was read, as follows:—

The directors have much pleasure in meeting the shareholders on this occasion, and beg to congratulate them on the satisfactory nature of the reports from Australia. Mr. Salter, the manager, seems to thoroughly understand his work, and to be using every effort to develope the mine for the benefit of the shareholders. No absolute crushing or washing have as yet been made, but the machinery will soon be all completed, and as Mr. Salter writes in nearly every report that nearly all the different points show "visible" gold, there can hardly be a doubt as to the prospects of the company. The directors call attention to the fact that Mr. Salter has now succeeded in securing an extra 10 acres of ground for the shareholders free of cost to the company. The should be considered of great importance, as it not only greatly increases the length of the Mosquito Reef in the company's grant, which has been opened upon at surface, and is believed by experienced men to be as valuable as the Thornhill, but it also nearly doubles the length of Thornhill Reef. The directors present a statement of the company's affairs made up to June 24, duly audited, and by which an available balance of 1066'. S. 4.1 is shown to the credit of the undertaking. There are no liabilities. It will be necessary to appoint an auditor for the cusuing year, and the directors propose Mr. Edwin Miller, of 1, George-street, Mansion House, E.C., public accountant, but it is competent for the shareholders to elect any person that may be duly qualified to fulfill the post.

The Chairman said the board were anxious that the shareholders

The CHAIRMAN said the board were anxious that the shareholders

miner, of 1, George-street, Mansion House, E.C., public accountant, but it is competent for the shareholders to elect any person that may be duly qualified to failly the post.

The CHAIRMAN said the board were anxious that the shareholders should be informed of the actual position of the company. The reports received from time to time were considered by the board to be of a very satisfactory character, and they believed that Mr. Salter, their agent, was doing efficiently and satisfactorily; in fact, there was no information in any way in possession of the board that induced them to doubt of the ultimate success, and a very considerable success, of the undertaking. Means had been taken, at the instance of the directors, to communicate to the shareholders the reports received from time to time. The work of the directors up to the present time had really been a matter of mere form, in completing the necessary legal arrangements, and collecting funds to pay for the machinery, to export that machinery, and to remit funds to Australia, there to be applied for the interests of the company. A report was received every month from their agents, and that received from Mr. Trewrin, the underground agent, dated April 22, was as follows:—Since the present company has taken possession of the mine the shaft has been thoroughly overlauded and put in good repair, runners have been fixed to carry the skip, and all other work that is necessary for carrying out the work in the index economical way at present known. The machinery and winding gear that is now fixed in the mine is prepared to raise any quantity of quartz that will be required. Two drives have been started from the present shaft—first, at the 300 ft. level, is driven about 31 feet, and for the purpose of opening out quickly only a simil portion of the reef has been taken down. The part that has been taken down and priced. I can see no reason why the other part of the lode will be taken down and tried. I can see no reason why the other part of the lode will be taken dow

is a little cost.

In the 14 years' experience I have had in this colony as a quartz miner and mining manager, I have not seen a better defined and more permanent lode in the colony. I have no hesitation in saying that I believe before long that the Thornhill Rest will be one of the best paying mines in the district.

The CHAIRMAN then read the report received that morning, which

The CHAIRMAN then read the report received that was as follows:—

Was as follows:—

Plant: The erection of the stampers has been completed and the house lift (pumps) is being fixed, and will very soon be finished. They are just now timbering the apper portion of the shaif in connection with the lobby drive through which the water is brought from the dam to the stampers. The dressing machinery I wrote in my last the reasons for not creeting, and the same holds good, as were I to push on the erection of machinery in the same proportion as I am the works on the mine. I should very soon be brought to a standstill. This may appear a delay, but it is not actually so, all the time the mine work is carried on it only ensures a more permanent and uninterrupted start when we begin. At the same time, the non-completion of machinery prevents my ascertaining the value of the stone opened up, which is very desirable to know. I am half disposed to rig up a temporary blanket-table, as being inexpensive, in the meantime, for the purpose of getting the stamps well tried. At present we should not have a sufficient supply atone opened up, which is very desirable to know. Tam half disposed to rig up a temporary blanket table, as being inexpensive, in the meantime, for the purpose of getting the stamps well tried. At present we should not have a sufficient supply of water, the season having been very dry, but the rin has commenced and we caught a good deal last night. I may here mention that the machinery forwarded by Messrs. Harvey and Co., of Hayle, and Mr. Lee, of Patrieroft, is most liberally complete (especially in Messrs. Harvey's case), and the best work I have seen for a long time, and the unmistakable advantage of dealing with such firms as Messrs. Harvey is the number of things sent in the shape of fittings, with even duplicated that are not sent at all by others unless ordered and paid for separately, which would bring up the cost considerably.—Mine: The 500 feet level is being drivenro contract at 20s. per foct, and is now in 70 ft. No stone has been taken down, but we see no change from last report. The contract will be up next week, when the stone will be taken down. The 300 ft. level is also on contract at 30s. per foot, and is in 43 ft. The contract will be up in a fortnight, when the stone will be taken down. In the bottom of the shaft they are over 6 ft. in solid quartz containing a very large quantity of pyrites, and no sign of the east wall yet. The stone improves in appearance every foot they go. Next week we are going to lower the plunger into the bottom cistern (the one I reported flying some time since) and put the lift into the bottom of the shaft. I shall then let a contract for sinking 50 ft. which will about give us another level. We have discovered a mine of nice looking seamy stone, apparently running behind the stone (west side) worked by the Brittingham's. Two men will be put on to try this as soon as the remains worked is marked in the diagram. The one weare now workings the ref was supposed to have tapered out, and another taken its place. The ente he first ingham's working the reference to the pu

in quartz. I should very much lihe to have two men in Fyfe's shaft, and will can manage it, as nothing is being done in the northern portion of the ground : all in quartz. I should very much lihe to have two men in Fyfe's shaft, and will if I can manage it, as nothing is being done in the northern portion of the ground; and I am of opinion that wherever gold can be seen men should be put on to settle what it is like, then we know what to expect. The lease for the extra 10 acres of ground has been issued and exceuted in my name. I shall now have it put in Mr. Griffith's name, and get a trust deed from him, the same as for the other lease. The mining surveyor promised me a plan of it attached to the old lease, but it is not ready, or I would forward it. I may say I am carrying out the works with a view to permanent benefit, keeping in mind always the amount of money in hand, and this, I think, is best done by maxing a mine ready to work, rather than a fine plant erected and the mine not opened. I enclose the usual monthly accounts of receipts and expenditure. The 1000% draft telegraphed will be credited as soon as it arrives.—WM. SALTER.

The CHAIRMAN said there was little to add, except some few remarks in a private letter from Mr. Salter to Mr. Thompson, in which

marks in a private letter from Mr. Salter to Mr. Thompson, in which

marks in a process.—
I am going in strong to give you the success you ask for. If our property vin Sandhurst just now it would realise three times the amount of our capital: it may turn in our direction yet, as three years ago the Extended Hurselers Co pany were selling at 14. cach (392,9004): then, part of the ground is let on tribund these shares (28,000) are selling at 64.—1684.; present market value 560,00 besides having paid during that time 262,0004. In dividends."

Let Abe Chairman then moved that the report and balance sheet

besides having paid during that time 252,000. In dividends. He (the Chairman) then moved that the report and balance sheet be

He (the Chairman) then moved that the report and balance sheet be received and adopted.

Major Bell enquired the amount of cash at present in hand, and whether anything had yet been received from the crushing of the quartz supposed to be at surface at the time the purchase was effected?

The Chairman said they had about 1000! in hand, and that the dressing machinery was not yet complete. In reply to other enquiries, he (the Chairman) stated that it was very possible further capital would be required, but by that time they were entitled to expect special information as to the value of their venture, and they hoped the mine would then be paying its own expenses. The stamps in course of erection were pneumatic, each stamps-head being estimated to crush 10 tons per day.

n course of erection were pneumatic, each stamps-head being estimated to them of tons per day.

Mr. Thompson mentioned that those stamps had been sent out on trial by the desars. Harvey and Co., of Hayle, and would not cost the company anything uncess they proved successful.

Mr. Tio Mrs. Tio asked if they were similar to those used at the Eclipse Mine?

Mr. Thompson replied in the negative. They had worked very satisfactorily at mine in Cornwall, and Mr. Salter, when in England, was so much pleased with hem that he readily consented to become Messirs. Harvey's agent in the colony, and that induced the Messirs. Harvey to send them out to this company's property twee of cost.

ree of cost.

The Chairman added that there were some old stamps on the mine, so that they were not entirely dependent upon the new ones.

Mr. Daunes said there was no doubt the best machinery could be obtained from he foundries in the colony.

Mr. T. G. Taylon suggested that in future the accounts should be circulated mong the shareholders prior to the meeting.

The Chairman said there could be no possible objection. In this instance the irectors had complied strictly with the requirements of the Articles of Association, but in future the suggestion of the hon, proprietor should be adopted.

The motion adopting the report and balance-sheet was then put, and carried manimously.

The monon adopting the report and balance-sheet was then put, and carried unanimously.

Upon the proposition of Major Bella, seconded by Mr. Hare, it was resolved that the directors' and agents' reports and accounts, as read, be received and adopted, and ordered to be circulated among the shareholders; and that Mr. E. Miller, of No. I., George-street, Mansion House, public accountant, be elected additor.

A unanimous vote of thanks was passed to the Chairman and directors.

The Chairman, in acknowledgment, said that their only desire was the success of the enterprise. They had honestly and sincerely done their best, and they believed they had a faithful agent in Australia. All they could do was to watch the operations at the mine, supply their agent with funds, and look for success.

The meeting then separated.

BRAGANZA GOLD MINING COMPANY.

The annual meeting of shareholders was held at the offices, Colemantreet-buildings, on Tuesday,—Mr. Charles Morris in the chair.
Mr. W. Edwards (the secretary) read the notice convening the

Mr. W. EDWARDS (the secretary) read the notice convening the meeting.

The report of the directors stated it was anticipated last year that the drivings then made would have brought operations very speedily into the goldbearing rock, but all those who have had experience in mines know that the sanguine expectations of those most interested are seldom literally fulfilled within the time they have looked for, and in this matter your company has formed no exception to the rule. At the points where the best results were anticipated the rock, though auriferous, did not encourage further exploration, and other levels have subsequently been receiving greater attention in consequence of their giving indications of a more congenial nature, and a greater width of auriferous lode. The sum of the operations has been, therefore, rather tentative than otherwise, so as to determine the best part of the company's property before sinking money in actual mining; but a detail of all these would searcely be in place in an annual report. The directors may summarise the results in comparatively few words. The principal part of the old workings—those that had been conducted by the former owners of the property—were high up the mountain, and it was believed that the very rich specimens said to have been obtained came from these open workings. Explorations were, therefore, made in that part first; but while those were disappointing in their result, the divings in the lower levels have shown an increased width of lode, and a richer quality of ore. Thus at the deep adit A, which is, however, 400 feet above the base of the mountain, and which has recently been driven further southwards, the lode No. 3 has gradually increased in size, and by last accounts was at least 17 feet big, the footwall not having been reached when the mail left; and the quality of the lode was such as to justify its being sent to the stamps. This confirms the generally received theory that the lodes improve in depth, and is, therefore, the best guarantee that can b The report of the directors stated it was anticipated last year that

party in London who, they have reason to believe, will be both able and willing to a introduce additional capital on terms which in such case would be submitted to a special meeting of the shareholders.

The CHARBMAN said the board wished it had been in their power to have presented a more cheering report, but it must be admitted on all hands there was good ground for hope. The last time the shareholders met the lode was less promising than now; one important point, alluded to in the report, was worthy of observation—that when a certain depth was attained the indications considerably improved. By the last mail information of a more cheering character was received, but, unfortunately, the mail now overdue was not yet to hand; and, therefore, the board were unable to give further information upon this material point. Regarding a mine, no one should ever be disheartened, for most extraordinary fluctuations were always taking place. While in that room he had been talking with a gentleman, who informed him of a mine the shares of which some 18 months since were selling for 15t, per share now realised 175t, to 200t; all he could hope was that a somewhat similar result would be realised in Braganza. They had had an offer made of an adjoining property, which held a very high reputation in Brazil; it was offered under very favourable circumstances, and if the two mines could be united and worked as one the company it might be made a very remunerative enterprise. The mine to which he referred was offered in London two years since for 30,000t, but it was offered to this company for a moderate royalty. The manager wrote most confidently of its realising successful results, and some influential parties gave great hopes of being able to get the capital subscribed as soon as it was known presession of the prevent seatlester. and some influential parties gave great hopes of being able to get the capital subscribed as soon as it was known possession of the property could be obtained, the time for the option of taking it being limited. The board had written to have the time extended, so that the board would be able, if agreeable to the shareholders, to entertain the proposals of those gentlemen who seemed disposed to come forward and take it up. He then moved the recention and advantage, it has take it up. He then moved the reception and adoption of the re

take it up. He then moved the reception and adoption of the report and accounts.

Mr. Asmars econded the proposition.

Mr. Earle wished to know what had come of all the gold reported from time to time?—The Chairman said there was no quantity raised.

Mr. Earle was not at all satisfied with the result. He wished to have some information in regard to the calls, arrears, and the gold dust at the mine.

The Sherietarrait said that the gold dust at the mine had been accountaling since the commencement of the operations.

Mr. Farle complained that the shareholders did not get an account of the costs and returns of each mouth.

The Sherietary said the cost-sheet was received every month from the mine, and shareholders might see it at any time by calling at the office.

The Chairman, in answer to a question, stated the report received every main shaways appeared in the Mining Journal. No portion of the call would be paid away for the Catabranca Mine; no money had yet been paid, and the liability for 3000, in connection with this property remained to be accepted in shares. The last call would realise about 2000. A very little increase in the produce of gold would yield very good returns and considerable profits, If the ore yielded 3 oits, per ton

it would pay, and 5 oits. would give good profits.—The report and accorded and adopted.

Upon the proposition of the Chairman, seconded by Mr. Costrilo, the of Mr. G. Gladstone was agreed to.

Upon the proposition of the Chairman, seconded by Mr. Gladerone, the of Mr. I. U. Naylor as director in the room of Mr. Cutler, resigned, we mously adopted. Mr. Harris was re-elected a director.

A vote of thanks to the Chairman and directors terminated the proceed

BIRDSEYE CREEK GOLD MINING COMPANY.

The annual general meeting of shareholders was held at the office, Austinfriars, on Thursday,—Mr. J. T. P. PECHEY in the chair.

Mr. W. J. LAVINGTON (the secretary) read the notice convening

Austinfriars, on Thursday,—Mr. J. T. P. Pechey in the chair.

Mr. W. J. Lavington (the secretary) read the notice convening the meeting.

The report of the directors stated that the accounts show that a gross produce of \$12,850, 38, 4d. had been obtained, at a cost of \$4284, 108, 2d., leaving a produce of \$15,850, 38, 4d. had been obtained, at a cost of \$4284, 108, 2d., leaving a produce of \$15,850, 38, 4d. had been obtained, at a cost of \$4284, 108, 2d., leaving a produce of \$15,850, 38, 4d. had been obtained, at a cost of \$4284, 108, 2d., leaving a produce of \$15,850, 38, 2d., being 33 per cent. of the gross returns. Owing to the eatile slope extending over a period of 13 months—only represent the results of months actual work, during the first five of which operations were very limited. Thould chends, aggregating \$2504, have been paid. These dividend have been evolving the first four months of the current year. The profits made during the of ownking in 1871 were absorbed by the expenditure on the company side, and in the purchase of an additional plees of ground on which to move the same, in order to prevent its receiving injury from mining operations. This outleton, and in the purchase of an additional plees of ground on which to move the same, in order to prevent its receiving injury from mining operations. This outleton, and in the provent its receiving injury from mining operations. This outleton, and the provent its receiving injury from mining operations. This outleton, and in the provent its receiving injury from mining operations. This outleton, and in the provent its receiving injury from mining operations. This outleton, and in the provent its receiving injury from mining operations. This outleton is made, as an additional between the proceedings of the superintendent to sink a shaft and drive this ten Necce and West claim was in at the date of last advices about 350 in lattice. It is a shaft and drive this ten from three faces simultaneously, by which plan of working it instruction in the Necce an

anticipated, the directors cannot but express their undiminished confidence in their future prosperity when once the necessary works for their full development are completed. As was always the ease where an extension of operations had to be made, great outlay had to be incurred at first. Uncle Sam claim had been worked under adverse circumstances, for in washing off the site of the old town, which was destroyed by fire some time since, melted lead was met with, which interfered with the amalgamation, and allowed the gold to be carried off. Looking at the adverse criticisms which had appeared in the Times and Mining Journal upon the gigantic schemes that had been introduced during the past year for working Californian mines, he (the Chairman) had never heard from any source whatever an adverse or unsatisfactory remark about the property of this company; on the contrary, everyone agreed in the opinion that it was had been introduced during the past year for working Californian mines, he (the Chairman) had never heard from any source whatever an adverse or unastisfactory remark about the property of this company; on the contrary, everyone agreed in the opinion that it was a very splendid property, and when once laid out capital dividends would be paid for many years. The accounts epoke for themselves, although he might explain with reference to the item in the mines' purchase for 2900L, that when operations were commenced on Uncle Sam claim it was found necessary, in order to obtain a sufficient suppurchase an additional piece or ground; and, apart from its value for the purposes for which it was acquired, it possessed considerable worth as mining ground, and would, no doubt, prove a very valuable accession; in fact, their agent had informed them that the whole cast would be recouped in six months after operations had been commenced. In making that purchase, and in paying for the cost of the ditch, the directors had been obliged to use a portion of the profits. He stated at the last meeting that he estimated the cost of the ditch; the working account, if it could be thoroughly analysed, many expenses would be found fairly chargeable to the repair of the ditch; but they had thought it proper to write off all expenditure from revenue account, and the ditch was now in fair working order. The Neece and West claim had run out of grade sooner than was expected—that is, the present tunnel was found not to be of sufficient depth to enable them to unbottom the blue lead, but another tunnel has been run, which would command many thousand feet of their valuable blue-lead. Their agent said that from this point alone a profit would be realised of 3000/L per month when the tunnel was completed. In many of these hydraulic mines the top dirt was only an encumbrance, but in the Neece and West they were making it pay; therefore, it was only reasonable to suppose they would make very large returns and profits. He had already mentioned that results, so that they knew the blue lead was there, and when ready they would be able to make very large returns and profits from it. It should be understood that the gross profit of 4152t, did not re-It should be understood that the gross profit of 4152. did not represent a year's work, for they were only actually in operation from January to April, and yet they were able to declare two dividends, amounting to 2250\(\), so that it might be fairly said there were 14 months' expenses against four months' returns. The balance to the credit of profit and loss was 1228\(\), and the profit received for the "clean up" for May was 1000\(\), making a total credit of 2228\(\). As however, they had purchased the additional land to which he had referred, and had repaired and enlarged the ditch, the working capital had been rather exceeded, consequently the actual balance was not more than 1555\(\). They had this day received a telegram, stating that the gross yield for the last month of 30 days was \$6750\(\), and the profit \$3500\(\), and that a remittance of 750\(\). had been forwarded. As that would increase their available balance to 2750\(\), the directors propose to declare a dividend of 2s. per share, leaving \$00\(\), to be carried forward to the next account. He thought the shareholders might confidently look forward to a very prosperous year. (Hear, hear.) He then moved that the report and balance-sheet be received and adopted.

MR. Strikle seconded the proposition.

MR. Strikle seconded the proposition.

The Chairman, in reply to a question, stated that they were now only working three of the seventeen claims. It was stated when the company was formed that their own water supply could be depended upon for eight months in the year. In the claims they were now working there was work enough before them for the next twonty were.

the claims they were now working there was work enough before them for the zest wenty years.

Mr. WILLIAMS (the vendor of the property, and a large shareholder) proposed that those claims should be reserved for some future time. He thought arrangements had been made to commence a tunnel in the Red Dog group of claims, which would take about three years to complete, but these properties need not be touched at present. Those additional claims had been purchased to prevent other people from acquiring them. Throughout the whole of the claims the average depth of the "blue lead" might be estimated at from 30 to 80 ft. The bed rock was mostly slate, but in some places it was a combination of slate and granite.

The CHAIRMAN asked Mr. Williams if water could be obtained to work the three claims throughout the year?

Mr. WILLIAMS said there was sufficient water to work one claim throughout they was.

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uld not recur in future years, but in the face of this circumstance wild not recur in future years, but in the face of this circumstance y had started right away by making profits and declaring divides (Hear, hear.) No statement made by the vendor had not do. (Hear, hear.) No statement made by the vendor had not do. (Hear, hear.) Hear years a divided of 2s., which, as the Chairman had stated, enabled them to declare a dividend of 2s., which, as the Chairman had stated, enabled them to declare a dividend of 2s. which, as the Chairman had stated, enabled them to declare a dividend of 2s. which, as the Chairman had stated, enabled them to declare a dividend of 2s. which, as the Chairman had stated, enabled them to declare a dividend of 2s. which as the control of the control of

whether the shareholders might substitute that opinion—nay, it was more than an important property?

Figure of the state o

is interest.

the motion adopting the report and accounts was put and carried unanimously.

the motion adopting the report and accounts was put and carried unanimously.

ft. Ward was re-elected director.

Mr. J. B. Bennett and Mr. C. O. Rogers were the duditors.

Mr. Ward was re-neelected auditors.

Lipan the proposition of Mr. St. Alphonse, seconded by Mr. Rotch, a unani-lipan the proposition of Mr. St. Alphonse, seconded by Mr. Rotch, a unani-lipan the proposition of Mr. St. Alphonse, seconded by Mr. Rotch, a unani-man, where the second of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their Mr. G. Battkes bore testimony to the value of the services rendered by their services rendered by their services rendered by their services rendered by their services rendered by the ser

hairman, was ever being exercised for the benefit of becompany.

The CHAIBMAN, on behalf of his colleagues and himself, appropriately acknowing the confidence of the deed the vote accorded by the meeting. He thanked the shareholders for the digit the vote accorded by the meeting. He thanked the shareholders for the mipliment, and for the confidence which they reposed in the board; and all he aid any was that no effort would be sparred to continue to merit that confidence, desure the prosperity of the enterprise.

The meeting then separated.

FEDW LEAD MINING COMPANY.

could say was that no cnorry.

The annual general meeting of shareholders was held at the offices, the meeting then acparated.

The annual general meeting of shareholders was held at the offices, Austinfriars, on Monday,—Mr. W. C. Buller in the chair.

The notice convening the meeting having been read, a statement of accounts was submitted, made up to June 17, which showed a balance of assets over liabilities of 2199/. 10s. 7d., including the unblance of assets over liabilities of 2199/. 10s. 7d., including the unblance of assets over liabilities of 2199/. 10s. 7d., including the unblance of assets over liabilities of 2199/. 10s. 7d., including the unblance of assets over liabilities of 2199/. 10s. 7d., including the unblance of assets over liabilities of 2199/. 10s. 7d., including the unblance of assets over liabilities of 2199/. 10s. 7d., including the unblance of a state of the load, as follows:—

The report of the directors was read, as follows:—

The report of the director was read, as follows:—

State of the deal of the state of the load, as dready produced in the shalles state, and the quantity of lead and blende it has already produced in the shalles state, and the control of the load of the shall be site of through there and driven on for some distance. From that depth the saling will take place on the course of the lode, and, therefore, would be daily saling its value at that point.

The report of the agent was read, as follows:—

July 2.—For the annual meeting, to be held on the 8th inst., I beg to state that there is no change of importance in the mine to notice other than described in rest reports. At about this time last year a discovery of ore was made in the end of the stope under the 10 fm. level west, which led us to expect a considerable body of lead ore, from thence eastwart; but, although it yielded some very magnificent seks of lead ore, and a good deal of blende. In the present end it is worth 1½ to not blende per fathorn, and contains strong spots of lead ore, it did not continue to the

consider there are good prospects of meeting with deposits of lead and blende ore.

—John Pallel.

The Chairman said that, although up to the present time the anticipations, based upon the indications which presented themselves

—nay, actual results attained—in the upper levels, had not as yet
been realised in the deeper workings, still, looking at the almost
exceptional character of the lode in point of size and value, considering its general characteristics, and the mineralogical conditions
surrounding it, there were solid grounds for believing that at an increased depth it would be found remuneratively productive. Shareholders generally were probably not aware that in lead mines it was
by no means an unusual occurrence to encounter a band or belt of
strata in which the lode, although productive above and below it,
became poor, if not non-metalliferous; it was, at least to his mind,
most encouraging to find that in their own case the lode while in
this unproductive band was not only maintaining its masterly but most encouraging to find that in their own case the lode while in this unproductive band was not only maintaining its masterly but also its mineral-bearing character, although of less actual value than in the earlier stages of development. This he regarded as a very significant feature, indicative as to the condition in which the lode would be found when beyond the influence of this uncongenial belt. So far as he knew, there was not an exception among the rich lead mines wherein a similar condition of things had not been encountered; so that its presence should be accepted as almost essential to the realisation of successful results. As far as possible, operations were chiefly limited to the sinking of the shaft, so as to test the lode stallower depth, where their hopes were centred. He might also were chiefly limited to the sinking of the shaft, so as to test the lode at a lower depth, where their hopes were centred. He might also mention that the quantity of blende in the lode was likewise a most favourable feature, and that in this respect, too, it was analogous with all rich lead mines. In addition to their lead they had sold one parcel of blende, and were about to sell another, the total amount realised by their sales of lead and blende up to the present time being 1650. Therefore, taking all the circumstances into consideration, and comparing them with the earlier history of the long-established lead mines of the country, he thought the shareholders would agree with him that there were good reasons to look forward with confidence to the further development of Fedw yielding profitable results dence to the further development of Fedw yielding profitable results to all associated with it. He moved that the report and balancesheet be received and adopted.

The motion, without discussion, was put and carried.

Mr. W. Greame was re-elected director, and Mr. Brandt auditor.

A rote of thanks to the Chairman and directors terminated the proceedings

VIRTUOUS LADY MINING COMPANY.

The adjourned extraordinary general meeting of shareholders was held at Tavistock on June 29. Present: Lieut.-Col. C. G. Percival; Capt. Engledue, R.E.; Messrs. W. Jones, Bellairs, Murray, Greenfield, Legasseck, Capts. H. Horswill, Woodley, and Dobson. Col. Percival held a large member of previous

held a large number of proxies.

Mr. JAMES MURRAY in the chair.

FOREIGN MINING AND METALLURGY.

FOREIGN MINING AND METALLURGY.

In the Haute-Marne the price of coke-made iron is generally maintained now at 12½ per ton. Other descriptions have experienced only very trifling variations. It is announced that the forgemasters of the Nord and Champagne have carried their scale between the different classes of merchants' iron to 16s. per ton. The forgemasters of the Loire and the Centre have, however, deemed it right to maintain a scale of \$s., agreed to by them by common consent some time since. Contracts for rails, plates, tyres, &c., concluded by the great French railway companies in May and April reflect the considerable advance in prices to which the companies have had to submit. Bessemer steel tyres might be had in April at 20½ per ton; in May they cost 2½ per ton. Steel rails also rose 1½, 5s. per ton in May as compared with April.

At Paris, Chilian copper in bars has made 108½ per ton; ditto in ingots, 112½ per ton; English tough cake, 113½ per ton; and Corocoro minerals (pure standard), 110½ per ton. At Marseilles refined Chilian and Peruvian has realised 106½ per ton; old red copper, 104½, per ton; red copper rolled in sheets, 120½ per ton. At Rotterdam. Drontheim has been quoted at 50 to 52 fls.; and Russian Crown, 50 to 51 fls. The visible supply of Banca tin in Holland was estimated at the end of June at 88, 139 ingots, as compared with 157, 303 ingots at the close of June, 1871. The visible supply of Billiton in Holland at the close of June, 1871. The visible supply of Billiton in Holland at the close of June, 1871. The deliveries of Banca in the first six months of this year were 53,785 ingots, as compared with 24,151 ingots at the close of June, 1871. The deliveries of Banca in the first six months of this year were 53,785 ingots, as compared with 87,449 ingots in the corresponding half of 1871. The article has continued firm, upon the whole, in Holland, although it has been the subject of considerable fluctuations. At Paris, Banca, delivered at Havre or Paris, 163½; and English, delivered at P

the Pas-de-Calais have received orders from the East, the West, and the Centre, a quarter of France to which the district has never previously made deliveries. Coke is selling at 26s. to 27s. per ton, and new furnaces are being built every day. The high price of coal in England, and the working of the Mont Cenis line has opened to the basins of St. Etienne, the Saône-et-Loire, and the Isère the market of Northern Italy. A good deal is hoped for from this new outlet. The Upper Italy Railway Company has concluded contracts with St. Etienne mines for its supplies of coal and agglomerates. The winter season appears likely to open with very small stocks of coal, but with better supplies of rolling-stock upon the railways. In the Belgian coal trade the course of business is distinguished by great activity, as numerous and pressing orders continue to come to hand. It is said that the administration of the Belgian State Railways contemplates the establishment of a third line of rails upon its system for goods and coal traffic.

A new treaty of commerce between Belgium and France has been

templates the establishment of a third line of rails upon its system for goods and coal traffic.

A new treaty of commerce between Belgium and France has been, prepared by M. Ozenne. By the terms of this treaty the duties on coal will not be increased, but a slight additional tax will be imposed on iron, textile fabrics, and other materials. The Courcelles Nord Colliery Company will pay on Monday a dividend at the rate of 3l, per share for 1871. The Westphalian Mining Company paid July 1 a dividend for 1871 at the rate of 6 per cent. per annum. Items of Belgian metallurgical news are rather meagre this week. Prices have not varied, the aspect of the market has remained the same, and no event of any importance has occurred. Some persons consider the slight slackening in affairs as the precursor of a downward movement in prices, others as a simple repose, which must be followed by a new advance. This class of persons, frightened at the turn which things have taken during the last few months, becomes every day, however, more numerous. One of the most striking proofs of the little confidence felt in the future is the difficulty which is experienced in concluding contracts with deliveries in 1873 and 1874. Some have been concluded, but many have been refused. Old rails remain in great favour; transactions have been refused. Old rails remain in great favour; transactions have been refused to America, where they are in great demand. The prices of old rails do not undergo fluctuations similar to those sustained by other metallurgical products. A trial of a Fairlie engine has been made on the Namur and Brussels section of the Luxembourg Railway. The Luxembourg Railway Company has also purchased an engine on the Meyer system, so that the management may be able to make a comparison between the two types of engines. The imports of iron of every description into Belgium amounted in the first five months of this year to 47,360 tons, as compared with be able to make a comparison between the two types of engines. The imports of iron of every description into Belgium amounted in the first five months of this year to 47,360 tons, as compared with 21,600 tons in the corresponding period of 1871. The exports of iron from Belgium, which had been 59,960 tons in the first five months of 1871, amounted in the first five months of this year to 91,420 tons. The exports of Belgian rails into Germany appear to have somewhat decreased this year; on the other hand, some exports—1300 tons—of Belgian rails have been made this year to England, while in the corresponding period of 1871 none were sent in the same direction. in the same direction.

AUSTRALIAN MINES.

AUSTRALIAN MINES.

PORT PHILIP AND COLONIAL.—The directors have received the following advices from their resident director at Clunes, dated May 20:—"Four weeks ending April 23: Quantity of quartz crushed, 5221 tons; pyrites treated, 30 tons; total gold obtained 1021 ozs. 1 dwt., or an average per ton of 3 dwts. 22 grs. The receipts were 3897. os. 5d.; payments (including 653, paid on account of irewood and timber, and 3664. on account of concentration of plant), 4285. 5s. 4d.; loss, 3884. 4s. 11d.; deducted from which was lastimonth's balance of 1717. 8s. 9d., leaving a debit balance of 270. 16s. 2d. During the two weeks ending May 7th, the quantity of quartz crushed was 2505 tons; pyrites treated, about 15 tons; total gold obtained, 520 ozs. 5 dwts., or an average per ton of 4 dwts. 5½ grs.

AUSTRALIAN UNITED,—Mr. Kitto writes, dated Fryerstown, May 21:—"You will be glad to learn that the gold from the Central during the past.

AUSTRALIAN UNITED,—MT. RITLO WITLES, GREGE FYPERSOWN, MRY 1.—"You will be glad to learn that the gold from the Central during the past our weeks amounts to 175 ounces; value nearly 700. This has been vaised under recat disadvantage, in consequence of the badness of air, at a total cost, including nanagement, of 450/1, thus clearing off 220/1, of the company's debt, which amounts low to only about 690/1, including current wages. When the mine is thoroughly entitated—in about three weeks 'time—the manager states that the yield will be onble, and expenses not exceed 500/1, per month."

SCOTTISH AUSTRALIAN.—The directors have advices from Sydney ated May 18, with reports from the Lambton Colliery to the 14. The sales of coal

double, and expenses not exceed 500, per month.

SCOTTISH AUSTRALIAN.—The directors have advices from Sydney apport on the prospects of the mine (published in the Supplement to last week shormal), it was unanimously resolved to carry cut the recommendation of the committee, of which Col. Percival was the chairman, to resume the works at the mine perhapting of which Col. Percival was the chairman, to resume the works at the mine perhapting of which col. Percival was the chairman, to resume the works at the mine perhapting of the property of the property of the state of the month of April amounted to 9:86 tons.

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Angl. D-Australlian.—The directors have advices from Sydney does not be stated may 18, with reports from the Lambton Colliery to the 14. The sales of coal for the month of April amounted to 9:88 tons.

Angl. D-Australlian.—The directors have a stated may 18, with reports from the Lambton Colliery to the 14. The sales of coal for the month of pril amounted to 9:88 tons.

Angl. D-Australlian.—The directors have a state mine possed to the sale of the month

go further here pending better results from the property. I go to Sundhurst to-morrow, when I will make the fullest enquiries on the subject. Mr. Millin, the chairman of the Extended Hustlers Company, one of those who made the offer, is still, I believe, in Tasmania.

morrow, when I will make the fullest enquiries on the subject. Mr. Millin, the chairman of the Extended Hustlers Company, one of those who made the offer, is still, I believe, in Tasmania.

YORK PENINSULA.—The directors have received advices from the committee of inspection at Adelaide, dated May 16 last, with reports from the Kurilla Mine to the 16th. The following are extracts from Capt. Anthony's report, viz.;—"During the mouth the rise in the back of the 25 fm. level, west of Deceber, shaft, is heightened by 2 fms. 1ft. 6in. The lode is 2½ ft. wide, composed of quartz, pyrites, and copper ore, but the yield of ore has been small, yet there is bate, is a second standing in the western end of the rise that will, yet there is but as second standing in the western end of the rise that will set on tribute as second standing in the western end of the rise that will set on tribute as second standing in the western end of the rise that will set on tribute as second standing in the western end of the rise that will set on tribute as second standing in the western end of the rise that will set on tribute as second standing in the western end of the rise that will set on tribute as second set in the wine the rise, and were of first like the rise, and the were time. This work is of the utmost importance, as it will thoroughly ventilate this part of the mine and also lay open ground for tribute work. At the 15 fm. level, east of that's shaft, I am sinking a winze down into the pitch lately worked in the back of the 25 fm. level, the distance sunk being I fm., at 15c, and a fair lode for tribute laid open.

I may a 15c, and a fair lode for tribute laid open.

I have been supported raining Hall's shaft to the 35 fm. level, so as to render the old pitches east of the shaft workable again, as I can now offer more liberal terms than when copper was only 70c, per ton.

A branch of the Kadina and Wallarroo tramway, being laid down to take the ore away from the Doora Mine, will run through the dressing-floors at Deeble's shaft.

FOREIGN MINES.

St. John del Rey.—The directors have received the following report, dated Morro Velho, June 1:—The produce was not cleaned-up for the second division of May, to avoid the expense. Water lowered in shaffs during the month of May 9 fms. 2ft. 2 in., leaving the present depth of water in the shafts a little under If fms. The general work is going on steadily.

BON PEDRO.—Extract from a letter dated May 29: The general stuff is very poor, but we have had some everyfair vein work in the last 12 days; gold with the date, 6200 cits; estimate for month, 7700 cits.—From chief mining capating the date of the date, 6200 cits; estimate for month, 7700 cits.—From chief mining capating the date of the date, 6200 cits; estimate for month, 7700 cits.—From chief mining capating the date of the date, 6200 cits; estimate for month, 7700 cits.—From chief mining capating the date of the

vourable appearance, averaging so far as laid open fully 4 ft. wide.

SAO VICENTE.—Everything in the both mines is being pushed on with vigour.

BRAGANZA (Gold).—Capt. Roberts, Morro Tabac, May 31: A Deep Adit, No. 3 Lode: We have cut through the same, which is 15 ft. big, a very strong, masterly lode, with clay divisions, and just the same kind of matrix as mentioned in my last, producing a little gold, with water still issuing. We have excavated 1120 cubical feet, and sent all to the stamps. In the deep adit, on No. 1 lode, as mentioned in my last to be disordered, we have since driven a cross-cut cast some 2 fms. 4 ft., and intersected three small quartzose veins; from one of them we have taken some very good samples, and it appears, so far, best in the bottom of the south end. We have driven north and south 4 fms. 1 ft. on their course. Mr. Richards, the superintendent, writes from Ouro Preto, as follows: —I will forward my usual report on my return to the mine, and will merely add that during the last few days we have cut a vein in the deep adit which yielded at the rate of 50x, per ton. One sample of about 16 lbs. gave I dwt., and all the others are exceedingly good: the vein is at present small, but it may become larger as we open out in it. Samples taken in the jacotinga on the 27th inst. were the best I have yet seen.

BATTLE MOUNTAIN.—Capt. Richards, June 20: Virgin: No change having taken place in the 188 ft. level, all work has been suspended here. In the 113 ft. level north the lode is becoming more mixed with quartz and oxide of iron, but still producing some very good stones of ore. In the stope north of Truscott's winze, in back of the 113, work has been resumed; the lode is small, but turning out some fine copper: this may be known as Pierce's stope. The 73, being driven north, produces no ore at present, but shows occasional spots of green stain, and the ground is easy for working. Jack's stope yields a fair quantity of good ore. Henwood's stope, in back of the 37, has been suspended, but will

my next."

COLORADO TERRIBLE.—Extract from Prof. Richardson's letter,

ices from Sydney 14. The sales of coal I have the honour aft): 90 tons of stone as been seen several aft, the south boundary we have a lot of the shaft which Mr. Teal is sinking the ore is very rich. The new dressing apparatus is a perfect success. I have brought away with me a parcel of ore ligged so as been seen several aft, the south boundary we have a lot of the shaft which Mr. Teal is sinking the ore is very rich. The new dressing apparatus is a perfect success. I have brought away with me a parcel of ore ligged so can that it could not be beaten even in Cornwall. I advise you to have these works carried on to completion. The very lowest grade ore can be treated profitably light made on the mine. The future of the Terrible is brightness now being its distribution of the work of the profit of the profit of the work of the profit of the profit of the work of the profit of the work of the work of the profit of th

level, the 220 ft., and the bottom or 300 ft. level. At present there is a good lode in each end. A new shaft should at once be commenced about 1000 ft. north of the present one on the course of the lode, for the double purpose of ventilation and developing the mine in that direction; this done, and I am sure you would have a most valuable property. I have altogether at the mine thirteen men underground and four at surface.

nd four at surface.

SIERRA BUTTES.—The results of the clean up for the month of anc is as follows:—Receipts, \$35,597: 3364 tons of ore were crushed during the tonth; cost of mining and milling same at \$3.97 per ton=\$13,355.

BIRDSEYE CREEK.—Telegram from the superintendent, Mr. G. S. cowers, dated July 11: We have cleared up Uncle Sam and Nicce and West, after days run. Gross returns, \$6750. The profit is \$3500. I send you a remittance \$3750—750.

of \$8750—7504.

FLAGSTAFF (Utah).—Telegram: 120 tons of bullion produced last fortnight. One furnace stopped a few days: 30,000 bushels of charcoal on hand. Mine producing 40 tons daily. Machinery for new furnace deliverable in month. Daily records and reports mailed. All satisfactory.—(Signed) MAXWILL—Note: This report from the manager continues the profit of 5004, per day, as in former telegram.

This report from the manager continues the proint of 500t, per day, as in former telegram.

CAMP FLOYD.—E. B. Wilder, June 16: Herewith please find my semi-monthly report of operations at the mines. By our weekly statements transmitted regularly you will perceive a falling off in the extraction, or putting to pile, of the ore. This dimuttion does not proceed from want of ore in the mines, but in our using a large portion of the force formerly employed in stoping out ore, in removing by blasting a large body of rock in place at the head of the tramread, in order that we can have ample room or space for the cars to pass, as also for a dumping ground for the ore, which latter has completely blocked all the old dumping ground and open cut, thus retarding thus retarding the holsting of ore from the inclines, as we have no place to put it. The removal of this mass will probably occupy the men one week longer. Incline No. 1 is now down 118 ft. 9 in.; at this depth we have the same indications for again striking another rich body of ore as we previously had prior to striking the large body from which we have, and still are, taking out ore. In the north drift, from incline No. 2, we are now in 59 feet, and still in the horse of black limestone that we were in previous. Incline No. 3 still continues to yield good ore, and plenty in sight, but we must have room on the surface to deposit the ore. Near this incline, in open cut, the ore appears to have changed its pitch by making downward; in sinking we find quantities of horu sliver disseminated through the vein matter.

From cut west of Sparrowhawk cut I have to report little or no change, the ore being in strings, and from their apparent tendency to converge as we get further in with the work they will, I think, soon form a compact body on uniting. Shaft No. 4 having obtained a depth of 129 ft., necessitates the erection of a horse-whin trunces for the construction of same, and poppet heads are being got out: and as impossible to get men at the windhass for hosting the d CAMP FLOYD.—E. B. Wilder, June 16: Herewith please find my

drums or pulley's being turned smooth for the sage assays. The mill for the ore and as well as could be possibly desired. The grading back of the mill for the ore and we shall then commence sending ore to the mill, and enable us to extract more ore with these increased facilities.

EXCHEGUER, —Lewis Chalmers, June 17: I arrived back here on Priday, the 14th inst. I find the road to the mines very much cut up, but having put hands on it to-day it will be in good order by the time the hoisting machinery is on the ground. A "hone" has been encountered in the upper tunnel, but they is on the ground. A "hone" has been encountered in the upper tunnel, but they we shall commence enting logs, and handing to the mill.

I. X. L.—L. Chalmers, June 17: I beg to notify my arrival here on Priday, having contracted for the hoisting machinery, when in New York, to be delivered there within six weeks from the 4th inst. I find that the contract for un 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. 250 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 67 ft. of tunnel on the 1. X. Lole was annulled by mutual consent; only 6

ALAMILLOS.—July 3: The lode in the 60, driving west of San Rafael shaft, yields good stones of lead, worth ½ ton per fathom. The lode in the 75, driving east of Le Magdalena shaft, is large, composed of carbonate of lime and lead ore, yielding of the latter 1 ton per fathom. There is no improvement to report in the 85, driving east of Taylor's engine-shaft. The lode in the 85, driving west of Taylor's engine-shaft, contains a little lead, but not enough to value. In the 80, driving west of San Yago shaft, the lode is well defined, with a large rock of lead in the bottom of the end, worth ½ ton per fathom. The lode in the 50, driving east of Alexandra's winze, is of a very changable character, now being worth ½ ton per fathom. In the 40, driving east of San Victor's shaft, the lode has failed, but the ground continue easy for driving. The lode in the 50, driving east of San driving east of Alexandra's winze, is of a very changable character, now being worth ½ ton per fathom. In the 40, driving east of San Victor's shaft, it leade has failed, but the ground continues easy for driving. The lode in the 50, driving east of San Victor's shaft, is large, and spotted with lead. The 50, driving west of San Victor's shaft, is large, and spotted with lead. The 50, driving west of San Victor's cross-cut, is opening out paying ground for stoping, and produces ½ ton of ore per fathom. The lode in the 40, driving west of San Victor's cross-cut, has improved, and has a promising appearance, at present yielding I ton of ore per fathom. The lode in the 40, driving west of San Victor's cross-cut, has improved, and has a promising appearance, at present yielding I ton of ore per fathom. The lode in the 40, driving weet of San Victor's cross-cut, that improved, and has a promising appearance, at present yielding I ton of ore per fathom. The lode in the 40, driving south of San Victor's shaft. A nice-looking lode has been met with in the 50, driving cast of Addis's shaft, consisting of carbonate of lead, lime, and lead ore, and producing ½ ton of ore per fathom. and the ground very easy for driving. The 20, driving east of Addis's cross-cut, is opening out a productive pleve of lode, worth 1½ ton of ore per fathom. The lode in the 20 fm. level, driving west of Addis's consecut, is becoming more settled as it gets out of the influence of the cross-course, and is now yielding ½ ton of lead ore per fathom. In the 40, driving east of Crosby's shaft, is small and poor. In the 50, driving east of Crosby's shaft, is small and poor. In the 50, driving east of Crosby's shaft, is small and poor. In the 50, driving east of Crosby's shaft, the lode is improving in the 50, driving west of Crosby's cross-cut, and is very compact and regular, yielding I ton of ore per fathom. In the 30, driving west of Morris's shaft, the lode is mand, but letting out a good deal of water.—Shafts and Winzes: The men are getting on w

shaft, to prove the lode to the next level; it produces 1½ ton of ore per fathom. The tribute department yielded the full complement of ore in the past month, and the stopes are looking much the same as usual. The machinery throughout the mine is in excellent working order. We estimate the raisings for July at 250 tons.

WEST CANADA.—The stope in the bottom of the 40, east of Rowe's shaft, yields 3 tons of ore per fathom. The lode in Bray's engine-shaft; sinking telow the 60, is large and promising, worth 1½ ton of ore per fathom. At a stope in the back of the 60, east of Bray's, and east of Bratles winze, the lode yields 2½ ton per fathom. At a stope in the of the 35, west of Palmer's, the lote yields 3 tons per fathom. At a stope in the bottom of the 35, east of Bray's, the lode gives 2½ tons of ore per fathom. At a stope in the bottom of the 35 east of Bray's, the lode yields 3 tons per fathom. At a stope in the bottom of the 35 east of Bray's, the lode yields 3 tons per fathom. At a stope in the bottom of the 35 east of Bray's per fathom; as does the stope in bottom of the 20, east of new engine-shaft.

[For remainder of Foreign Mines see to-day's Journal.]

GREAT LAXEY MINING COMPANY.

The following Circular has been addressed by the directors to the

The following Circular has been addressed by the directors to the shareholders:—

The directors have, up to this time, not thought it needful, nor advisable, to trouble individual shareholders with partreulars of the proceedings of the men under "strike" at these mines, but have continued, at great trouble and inconvenience, to ascertain every fact connected with the management of the mine which could give ground for discontent amongst the men. In doing this the directors have discovered just cause of complain between the men and the managers have discovered with those matters were known only by the managers and the men, and are proved by books that were never in possession of any director, viz.—the managers "measuring book," and the miners "pass book," and from which it is discovered that some men were not paid for the work they did when due, and others were paid for work they had not done.

The directors think they have reason to complain that the men never made them aware of these facts, which, if known, would at once have been put a stop to; the principle the directors insist upon being, that every man shall receive the full amount he earns when due, without any postponement or deduction, and that no man shall receive more than he earns—that only being calculated to encourage ideness and to discourage the hard-working man. As regards the rate of wages the facts are perverted; and by talking of an "average rate of wages" those not acquainted with the truth are deceived. The following is taken from the pay-sheets for the last 13 months:—

1871. June.—In this month the men of 13 bargains received at the rate of from 20s, to 29s, each man per week.

20s. each man per

200. 10 200.			8.		8.	d.	1872.			s.		S.	d.	
July, 14	bargains,	fro	m20	to	27	0	Jan., 14 b	argains,	from	20	to	30	0	
August,	9 99		20	,,	28	9	Feb., 6		**	20		26	11	
Sept., 12	**	**	20	,,	29	11	March, 11	**				26	8	
Oct., 10	**	,,	20	,,	25	9	April, 12	**	**	20			1	
Nov., 9	**	**	20	,,	28	10	May, 11	**	**	20	,,	22	6	
Dec., 9	**	**	20	,,	39	5	June, 9	**			,,		1	
							July, 23	33		20		35	5	
Many of the										ahaa			. 1.	

Many of the men earned even larger wages, and in one instance as much as 47.14s. Ide per man per week! but the men were not fairly poid the whole money when due. Since the commencement of the strike the directers have been continually occupied upon an investigation of the injurious system pursued by the managers, and the board meets daily; and it was intended to wait patiently until the investigation was over before addressing the shareholders, but so many false statements have appeared in print, evidently intended to induce the nen to continue out on strike, and to make the shareholders, but so many false statements have appeared in print, evidently intended to induce the nen to continue out on strike, and to make the shareholders lose confidence in the directors, that they think it better to issue this statement.

The last attempt to do mischief is by a printed circular, purporting to emanate from the men on strike, seeking to induce shareholders to interfere with the directors in the ordering of the affairs of the mine. This document is not a true statement of facts. In order to deceive in forming what is called "an average," they include the labourers with the miners, although they know that the abourers with the miners, although they know that the labourers with the miners, although they know that the habourers receive merely a fixed pay of 16s. per week. It is not true that the necessaries of life for the men have, in this island, increased in price to the extant stated, but butchers' meat, coals, and clothing have risen in price, and other articles of consumption have been reduced in price. This printete circular, supposed to be issued by the directors out of capital, and to condemn the proceeding. This surely a very ill-judged attempt on the part of the servants to dictate to their employers how they shall conduct the affairs of the company.

The directors would indeed rejoice if the statements given in reason No. 6 of the circular, as to the increased profits of the company, were true, but they are att

LOCOMOTIVE TANK ENGINES

FOR MAIN LINE TRAFFIC, SHORT LINES, COLLIERIES, CONTRACTORS, TRONWORKS, MANUFACTORIES, &c., from a superior specification, equal to their first-class Railway Engines, and specially adapted to sharp curves and heavy gradients, may always be had at a short notice from— MESSRS. BLACK, HAWTHORN, AND CO., LOCOMOTIVE, MARINE, AND STATIONARY ENGINE WORKS,

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FIRE STONE.

G. R. NIXON, HARESHAW FIRE-STONE WORKS,
BELLINGHAM, NORTHUMBERLAND,
Is prepared to supply a superior quality of FIRE STONE, of any size, for

Is prepared to supply a superior quality of FIRE STONE, of any size, for BLAST-FURNACE HEARTHS, STEEL CONVERTING FURNACES, &c., &c. Carriage paid to any railway station, or f.o.b. at Newcastle on-Tyne.

ORE-DRESSING MACHINERY.

SEPARATION TROMMELS.

JIGGING MACHINES,-Continuous and automatic. CLASSIFIERS

SHAKING TABLES.

BUDDLES.

PERFORATED PLATES,-For Trommels, Jigging Sieves, and

SACIFS ROCK-DRILL,—As used at Altenberg, Commern, Saar-ruck, and Musen.

For particulars, apply to—

MESSRS. KEMBER AND CO. CLARENDON GROVE, DRUMMOND STREET, N.W., LONDON.

GIRDWOOD'S

PATENT RECIPROCATING CRUSHER

Is the SIMPLEST and BEST PULVERISER in existence. It will do BETTER WORK, and MORE OF IT, on same power than any other yet invented.

Apply for terms to George Green, Aberystwith; or to the patentee,

ROBERT GIRDWOOD, Edinburgh.

MAY BE SEEN AT WORK AT GREAT DARREN MINE, NEAR ABERYSTWITH.

ECONOMY IN FUEL.

MARTIN'S PATENT PISTON.

CONTINUOUSLY STEAM TIGHT; EFFECTING GREAT SAVING IN FUEL; GIVING ADDITIONAL POWER; AND NO TROUBLE.

MILLBROOK FOUNDRY, SWANSEA.

INCREASED VALUE OF WATER POWER

The extraordinary advance in the price of coals has directed more attention to water power, and to the best manner of applying it. For many years it has been, to a great extent, neglected and undervalued. One great objection to it has been, the variable nature of most streams in these contries, having abundance of water thirter to known was able to give the proper proportion of power from the amaler quantities of water, so that it became the practice very generally to use steamen and water than the proper proper than the summer half of the year, letting the water go to waste. This is now completely prevented, and the full available power can be obtained from a stream at every season by using

MacADAM'S VARIABLE TURBINE.

Macadam's Variable Turbine.

This wheel (which is now largely in use in England, Scotland, and Ireland) is the only one yet invented which gives proportionate power from both large and small quantities of water. It can be made for using a large winter supply, and yet work with equal efficiency through all variations of quantity down to a fith yet work if required. It is easily coupled to a steam-engine, and, in this way, always assiss it by whatever amount of power the water is capable of giving, and, therefore, saves so much fuel.

This turbine is applicable to all heights of fall. It works immersed in the tall-water, so that no part of the fall is lost, and the motion of thewheel is not affected by floods or back-water.

References to places where it is at work will be given on application to the makers, Macadam Brothers & CO.

MacADAM BROTHERS & CO., ENGINEERS, BELFAST.

> ND F. PO WIRE WEAVERS, POOL, AND

MINE SIEVE AND STAMPS' GRATE MANUFACTURERS, COPPER BOTTOM PERFORATORS,

COPPERHOUSE, HAYLE, CORNWALL,

LETTERS

ROYAL PATENT.

THOS. BORLASE'S PATENT METALLIC ORE-DRESSING MACHINE.

ADVANTAGES.

GREAT SIMPLICITY and ECONOMY of CONSTRUCTION and operation.

GEEAT SIMPLICITY and ECONOMY of CONSTRUCTION and operation. The stuff is taken direct from the stamps.

Nine-tenths of the tin or other mineral treated is saved at the first washing, The superintendence and attention required is the least possible.

The motive power necessary is very trilling.

LEAD ORE.—Four-fifths will be made fit for the market by one washing.

LIN ORES.—Four-fifths are cleaned into whits with one washing.

Dressing-floors can be laid out in shorter time and much more economically than with ordinary appliances.

Upwards of five-sixths of the labour cost for dressing is saved.

EXTRACTS FROM TESTIMONIALS

EXTRACTS FROM TESTIMONIALS.

From Captain Richard Blight, Cregbrawse and Penkevil United Mines, near Chacewater, February 19, 1872;—

I have seen the tin-dressing machine at work at North Roskear Mine, and fearlessly say it is the best machine I ever saw. I do not hesitate to say it saves ninetenths of the tin directly it passes over it, and eight-tenths of the tin is saved into while

at once.

From Capt. John Old, Breage, February 22, 1872.—

I have inspected Borlase's patent revolving metallic ore-dressing machine at North Roskear Mine, and am pleased to say that I have a very high opinion of it as a complete separator. I tried the roughs and slimes after it left the separator, and found it to be very poor. This testing of the machine was very satisfactory to me, and I can with confidence recommend it.

ne, and I can with confidence recommend it.

From Capt. Richard Pearder, Dolcoath, March 2, 1872;—
I have seen your machine for dressing tin ore working at North Roskear, and an eleased with the simplicity of its working, and it seems to separate its work very well.

From Capt. Anthony Johns, North Roskear, March 4, 1872;—
I have worked your dressing-machine, and I find it will do its work as a separator and cleaner admirably. The whits for burning are very good, and the roughs which pass over it are very poor. I have great confidence in recommending it, as it saves much manual labour.

it saves much manual labour.

From Capt. John RRYNOLDS, Cook's Kitchen, March 4, 1872:—
1 called at North Roskear Mine to-day, and saw your new tin-dressing machine at work. I vanned the different divisions of roughs and slime as classified by the machine, and found them highly satisfactory. I believe it to be the foundation of a method for dressing tin which must, sooner or later, come into general use.

From Mr. F. Pascor, tin dresser, Tuckingmill, March 4, 1872;—
It will do for any class of work; for slimes it is first-class. It is equal to four
imes buddling by passing over this machine once.

From Mr. S. H. Stephens, tin dresser, Great Wheal Fortune, March 5, 1872;—
I have seen Mr. Borlase's patent machine in full operation at North Rosker
ifine, and I willingly bear testimony to its efficiency for cleaning tin ores—in fact,
t makes the best separation in one running I ever saw, either in this country or in
tunerica.

THE MACHINE CAN BE SEEN AT WORK AT NORTH ROS-KEAR MINE, CAMBORNE, and all further particulars may be obtained on ap-TUCKINGMILL FOUNDRY COMPANY,

CAMBORNE, CORNWALL.

The SOLE MANUFACTURERS of BORLASE'S IMPROVED PATENT PUL-VERISERS and ORE DRESSING MACHINES, to whom all orders must be sent.

PROTECTED BY ROYAL LETTERS PATENT. BARKER'S IMPROVED
(FROM COAL DUST), FUEL

SUITABLE FOR ALL PURPOSES FOR WHICH COAL IS USED.

This fuel, made from dust coal, gives in use results superior to the best cod; it thoroughly water proof, stacks without liability to spontaneous combustion, loss, deterioration on board ship, or in any climate, and in 30 per cent. less space

or deterioration on board ship, or in any climate, and in 39 per cent. less spect than coal.

An immense saving in effected by its use on sea-going steamers, owing to itshigh evaporative power, requiring one-third less stowage room, and avoiding all risk opentaneous combustion. It burns with little smoke, forming itself into coke; it is very durable, the combustion is perfect, and it will not fall or disintegrate in great heat before a blast or strong draught, nor does it produce clinker. It will bear rough usage and handling without breakage.

As regards the manufacture, it is easily and cheaply made; the machinery made is simple, effective, and comparatively inexpensive.

No heavy pressure is required, or exposure to heat after moulding, to dry or coke (as is usual): and after mixing, the blocks could, if desired, be made up by hand labour; but for large production, self-acting machinery is recommended; and when moulded, the fuel is at once ready for use or transit.

Works are in operation in London, and can be viewed on application. Intending licensees can send their coal and have it made up into fuel in their own presence, and have it returned to them for trial.

Samples on a large scale suitable for every purpose supplied for trial. The proprietors of the patentes are prepared to grant licenses, and would, if desired, undertake contracts to provide machinery, erect works, and a put the same into satisfactory operation, on any required scale of manufacture.

Application to be addressed to the patentes—

Mr. DAVID BARKER, Oldbury House, Northfleet, London; or

Mr. DAVID BARKER, Oldbury House, Northfleet, London; & Mr. THOS. D. CLARE, 13, St. Mary's Row, Birmingham.

BENNETTS' SAFETY FUSE WORKS, ROSKEAR, CAMBORNE, CORNWALL. BLASTING FUSE FOR MINING AND ENGINEERING

PURPOSES, Buitable for wet or dry ground, and effective in Tropical or Polar Climates.

W. BENNETTS, having had many years' experience as chief engineer with Messrs. Bickford, Smith, and Co., is now enabled to offer Fuse of every variety of his own manufacture, of best quality, and at moderate prices.

Price Lists and Sample Cards may be had on application at the above address. LONDON OFFICE,-H. HUGHES, Esq., 85, GRACECHURCH STREET.

THE IRON AND COAL TRADES' REVIEW:
ROYAL EXCHANGE, MIDDLESBOROUGH.
The IBON AND COAL TRADES' REVIEW is extensively circulated amongst the Iron
Producers, Manufacturers, and Consumers, Coalowners, &c., in all the iron and
coal districts. It is, therefore, one of the leading organs for advertising every description of Iron Manufactures, Machinery, New Inventions, and all matters relating to the Iron, Coal, Hardware, Engineering, and Metal Trades in general.
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STEAM CRANE.

For quantities

ranging from

10,000 to 100,000

tons per annum

PEPPER MILL BRASS FOUNDRY COMPANY,

DARLINGTON STREET, WIGAN, COLLIERY FURNISHERS,

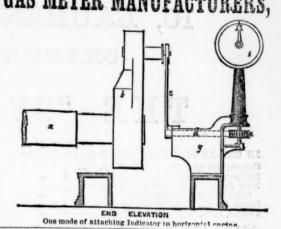
BRASS FOUNDERS, COPPERSMITHS, & GAS METER MANUFACTURERS,

The PEPPER MILL BRASS FOUNDRY COMPANY beg respectfully to invite attention to their IMPROVED SELF-REGISTERING COLLIERY WINDING INDICATOR, which, in addition to its ordinary use of indicating the position of the load in the shaft, registers the number of windings, thus enabling the manager at a glance, and at any moment, to check the return of the banksman or tallyman, by reading off from the dial the number of windings for any stated time.

This Indicator is especially adapted for Water Winding or Pumping. Its indications cannot possibly be tampered with, and unerringly show the number of windings or strokes for any stated period, so that it will at once be seen whether or not the person in charge has been fully discharging his

These Winding Indicators are supplied either with or without the Self-registration Dial.

The Pepper Mill Brass Foundry Campany will be glad to furnish, on application, sets of drawings illustrative of the simplest and cheapest mode of attaching their indicators to engines of various constructions, either vertical or horizontal.



PEPPER MILL OBRASS FOUNDRY CE

MAKERS

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CHAPLIN'S PATENT STEAM ENGINES & BOILERS

The ORIGINAL combined Vertical Engines and Boilers, introduced by Mr.

CHAPLIN in 1855. Each class kept in Stock for Sale or Hire. WIMSHURST, HOLLICK, & CO., ENGINEERS,

WORKS: REGENT'S PLACE, COMMERCIAL ROAD EAST, LONDON, E.

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SAFETY FUSE, FIRE TO THE BLASTING ROCKS, &c. SAFETY FUSE, BICKFORD'S PATENT CHARGE IN

CHARGE IN BLASTING ROCKS, &c.

bained the PRIZE MEDALS at the "ROYAL EXHIBITION" of 1861; at

c"INTERNATIONAL EXHIBITION" of 1862, in London; at the "IMPERIAL

prostrion," held in Paris, in 1855; at the "INTERNATIONAL EXHIBI
10%," in Dublin, 1865; at the "UNIVERSAL EXPOSITION," in Paris, 1867;

dat the "GREAT INDUSTRIAL EXHIBITION," at Altona, in 1869.

BICK FORD, SMITH, AND CO., of TUCKINGMILL, CORNWALL, MANUFACTURERS of PATENT SAFETY-FUSE, having been informed that the name of their firm has been attached to fine the state of the trade and public to the following announcement:—EVERY COIL of FUSE MANUFACTURED by them FOWDER, and BICKFORD, SMITH, AND CO. CLAIM TWO SUCH SEPARATE THREADS PASSING THROUGH the COLUMN of GUNTHREADS as THEIR TRADE MARK.

For Excellence and Practical Success of Engines



Represented by Model exhibited by this Firm.

HARVEY AND CO.

ENGINEERS AND GENERAL MERCHANTS,
HAYLE, CORNWALL,
AND HAYLE FOUNDRY WHARF, NINE ELMS, LONDON, CITY OFFICES (GRESHAM HOUSE), 23½, OLD BROAD STREET,

PUMPING and other LAND ENGINES and MARINE STEAM ENGINES the largest kind in use, SUGAR MACHINERY, MILLWORK, MINING MACHINERY, and MACHINERY IN GENERAL.
SHIPBUILDERS IN WOOD AND IRON.

SECONDHAND MINING MACHINERY FOR SALE,
IN FIRST-RATE CONDITION, AT MODERATE PRICES.

FUMPING ENGINES; WINDING ENGINES; STAMPING ENGINES
SEEAM CAPSTANS; and CRUSHERS of various sizes. BOILERS, PIT
WORK of all descriptions, and all kinds of MATERIALS required for
MINING PURPOSES.

THE PATENT PNEUMATIC STAMPS
May be SEEN AT WORK at HAYLE FOUNDRY WHARF, NINE ELMS,
by previous application at either of the above addresses.

IMPROVED

STAMP



FOR STAMPING GOLD QUARTZ, TIN, AND OTHER ORES. The grateway is extended, discharge doubly increased, and power economic My be inspected in full work, on application to Captain TREGAY, Redruth, Canwall, who is PREPARED to TREAT for GRANTING LICENSES for its use, at 18 MACHINES.

JOHN AND EDWIN WRIGHT,

(ESTABLISHED 1770.)
MANUFACTURERS OF EVERY DESCRIPTION OF IMPROVED

PATENT FLAT AND ROUND WIRE ROPES from the very best quality of charcoal iron and steel wire.

PATENT FLAT AND ROUND HEMP ROPES, SHIPS RIGGING, SIGNAL AND FENCING STRAND, LIGHTNING CON-DUCTORS, STEAM PLOUGH ROPES (made from Wedster and Horsfall's patent steel wire), HEMP, FLAX, ENGINE YARN, COTTON WASTE, TARPAULING, OIL SHEETS, BRATTICE CLOTHS, &c.

UNIVERSE WORKS, MILLWALL, POPLAR, LONDON. UNIVERSE WORKS, GARRISON STREET, BIRMINGHAM, CITY OFFICE, No. 5, LEADENHALL STREET, LONDON, E.C.

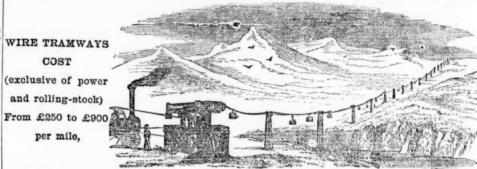
IMPORTANT TO CHURCHWARDENS, AND OTHERS,

WITH A VIEW TO POPULARISE. PUBLIC TIME INDICATORS,

We have produced a speciality that places us beyond the bounds of competition. We beg to call attention to our Works, Stable or Yard TURRET TIME-PIECE, all complete, ready for fixing. Dial 2 feet, raised figures, gold and blue ground; can be fixed by any joiner in a day

J. BAILEY AND CO., J. BALLEY AND CU.,
Turret Clock and Lightning Conductor
Makers to the late Earl of Rosse, the
Bishop of Manchester, Sir F. Crossley,
Bart., British and Foreign Governments, &c., &c.,
ALBION WORKS, SALFORD,

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And are at present successfully employed in lengths from a quarter of a mile to fourteen miles in transport of youl, ironstone, fireclay, coke, general mining produce, beetroot, sugar-cane, &c. They are working in most difficult and mountainou a districts, where any other means of transport is impossible, as well as through ordinary country.

ABOUT SEVENTY LINES HAVE ALREADY BEEN CONSTRUCTED,

TRAMWAY

(LIMITED)

Are PREPARED to SURVEY and ESTIMATE for LINES and EXECUTE CONTRACTS at HCME and ABROAD. They have engineers employed in constructing these lines in England, Holland, Prussia, Austria, Russia, Italy, Spain, United States, Peru, Chili, River Plate, India, Bolivia, West Indies, and Egypt. The system has been adopted by the English and Anglo-Indian Governments, the Spanish and Prussian Governments, and for many of the first mines and ironworks at home and abread.

WIRE TRAMWAY COMPANY (Limited), 21, Gresham-street, E.C.

THE DON ECONOMIC LUBRICATING OIL

IS 40 PER CENT. CHEAPER THAN THE ORDINARY KINDS.



MB, ALFRED HEWLETT, of the Wigan Coal and Iron Company, says:—"I have used it for two years, and find it to answer exceedingly well for lubricating purposes."

MR. NASMYTH, the Inventor of the Steam-Hammer, says:—"I am highly pleased with it as a most effective and durable lubricant, having remarkable properties in the way of setting free bearings which had got set fast."

In face of these and hundreds of other letters to the same effect, it is a MERE WASTE OF MONEY to use the dearer kinds for the engines and machinery of collieries and mines, numbers of which are now using the Don Oil instead.

Any company desirous of trying it before adopting it may do so at our risk and expense. Circulars containing particulars sent on application.

PRICE-By the Ton of 253 Gallons, 2s. 6d. a gallon; by the Cask of 40 Gallons, 2s. 9d. AGENTS WANTED AT HOME AND ABROAD.

BROTHERS,

DON OIL COMPANY, 2, BLOMFIELD STREET, LONDON, E.C.

CHAS. PRICE AND CO.'S RANGOON ENGINE OIL,

AS SUPPLIED TO H.M. DOCKYARDS AND FLEET.

THIS OIL is suitable to every kind of Machinery. As a lubricant it is equal to the best Sperm or Lard Oil, while it possesses the great advantage of being entirely free from any principle which wil

Lard Oil, while it possesses the great advantage of being entirely free from any principle which will corrode the metal bearings.

For particular kinds of Machinery, the Oil may be specially prepared of a consistency and character adapted to the nature of the work to be done.

"Chemical Laboratory, 7, Printing House-square, Blackfriars, April, 1869.

"I herewith certify that the Rangoon Engine Oil, manufactured by Mesers, Chas. Price and Co., is free from any material which can produce corrosion of the metal work of machinery. It is indeed calculated to protect metallic surfaces from oxidation.

"The lubricating power of this oil is equal to Sperm or Lard Oil.

"T. W. KEATES, F.C.S., &c. &c.

Every parcel of the Oil sent from the work bears the Trade Mark of the Firm.

LONDON: CASTLE BAYNARD, UPPER THAMES STREET. WORKS: MILLWALL, POPLAR; and ERITH, KENT



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20 Bistasey 20 Cedar C 15 Camp F 100 Chontal 50 Carn Ca 20 Don Pec 25 Emma (10 East Set 10 East Lo 100 Eclipse, 20 Eberhar 25 East Ca 15 East Va 20 Flagstaf 27 Frank D

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MR.

10 Minera, £6 Gawton, £5 100 South To Polbreen, £4 East Chivert Nangiles; 5 South Roma £4 Old Trebu 10 Wheal & Wheal Gren £5 Wheal Co Run; 150 Ts Vicente, 3a.

TANGYE BROTHERS AND HOLMAN,

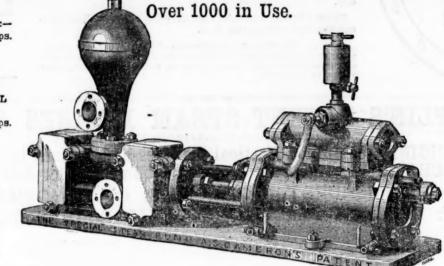
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SOLE MAKERS OF

THE "SPECIAL" STEAM PUMPS.

IN USE AT THE FOLLOWING QUARRIES:—Carnarvon and Bangor Slate Co. ... 5 Pumps. Kellow, J. E., North Wales Slate Co... 1 "
New Zealand Quartz Crushing and Gold Mining Company... ... 1 "
Soott, R. W., Dungannon, Ireland ... 1 "
Foster, J. S., Hebburn Quarries ... 1 "
IN USE AT THE FOLLOWING CHEMICAL WORKS:—



NOTE,

Requires NO Shafting, Gearing, Riggers, or Belts.

All Double-Acting:

Works at any Speed, and any Pressure of Steam.

Will Force to any Height.

Delivers a constant stream.

Can be placed any distance away from a Boiler.

Occupies little space.

Simple, Durable, Economical.

IN USE AT THE FOLLOWING COLLIERIES:-

			ODL	AT THE TODGE WING CODDING		
Acomb Colliery, Hexham Blackfell Colliery, Gateshead Black Boy Colliery, Gateshead Castle Eden Colliery Orofton, J. Ct., near Ferryhill Carr, W. C., Newcastle Etherley Colliery Gidlow, T., Wigan Haswell, Shotton, and Easington Coal Loohgelly Iron and Coal Company	Öo.	1))))))))))))))))	North Bitchburn Colliery, Darlington 2 Pumps. Newton Cap Colliery, Darlington 1 , Seaton Delaval Coal Company, near Newton Delaval Co		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Leather, J. T., near Leeds		2	"	Sketton mines westminster Brymbo Coal Company	***	. 2 "
Lumley Colliery, Fence Houses		1		South Benwell Colliery 4 , Weardale Coal and Iron Company		K **

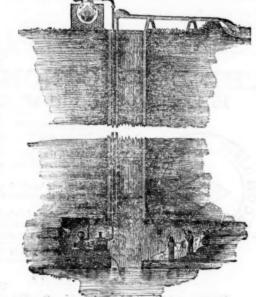
IRONWORKS AND ROLLING MILLS:-

Bede Metal Company, Jarrow	2 "	Gilkes, Wilson, Pease, and Co, Middlesboro' Lloyd and Co., Middlesborough	1 "	Whitwell and Co., Stockton Whessoe Ironworks, Darlington West Cumberland Hematite Iron Company Westbury Iron Company	3 Pumps 1 " 1 "
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THE "SPECIAL" STEAM PUMP AS APPLIED FOR DRAINING MINES.

The arrangement in the accompanying illustration shows an economical method of draining mines without the expense of erecting surface-engines, fixing pumprods, or other gearing. A boiler adjacent to the pit's mouth is all that is necessary on the surface; from thence steam may readily be taken down, by means of a felted steam-pipe, to connect the pump with the boiler. The pump may be placed in any situation that may be convenient for working it, and connecting the steam, suction, and delivery pipes.

These engines can be fixed and set to work in a



comparatively short time, and also at a very small outlay. They are used in large mines as auxiliary engines, and will be found invaluable adjuncts in all mining operations.

To estimate the quantity of water to be raised by any given size of pump refer to the tabulated list below. It is recommended to use long-stroke pumps where the height exceeds 100 ft., so that the largest result may be obtained with a minimum wear and tear of the pump pistons and valves. The pumps are provided with doors for ready access to all working parts.

PRICES OF THE "SPECIAL" STEAM PUMPS.

Diameter of Steam Cylinderinches	21	3	4	4	6	6	6	7	7	7	8	8	8	8	10	10	12	12	14	16	26
Diameter of Water Cylinderinches		11	2	4	3	4	6	5	6	7 .	4	6	7	8	6	7	8	10	8	7	61
Length of Strokeinches	6	9	9	12	12	12	12	12	12	12	12	12	12	18	12	12	18	24	48	24	72
Strokes per minute	100	100	70	50	50	50	50	50	50	50	50	50	50	35	50	50	35	-	-	-	-
Gallons per hour	310	680	815	3250	1830	3250	7330	5070	7330	9750	3250	7330	9750	13,000	7330	9750	13,000	-	-	-	-
PRICE	£10	£15	£20	£35	£30	£40	£47 10	£50	£52 10	£57 10	£50	£55	£65	£85	£70	£80	£100	-	-	-	-

IF BRASS LINED, OR SOLID BRASS OR GUN-METAL WATER CYLINDERS, WITH COPPER AIR VESSELS, EXTRA, ACCORDING TO SIZE.

Any Combination can be made between the Steam and Water Cylinders, provided the Lengths of Stroke are the same, thus—8 in. Steam and 3 in. Water, or 10 in. Steam and 3 in. Water, adapted to height of lift and pressure of steam, and so on.

TANGYE BROTHERS & HOLMAN, 10, Laurence Pountney-lane, London, E.C.